Focus - Centre to Violet. shorten the focus (increase micrometer reading)

Hour Angle End	D

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				DAVID DUNLAP OBSERVATORY
				74" LOGBOOK
				VOL 19
				PLATE NOS. 15405-16414
				NOV. 1948 - AUG. 1949

Date Sunday Nov 7-8 48 L - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15405	H.D. 198313	20 44.4	28 26	I - 12½'	E-103a-O	Set .008	+10.0	18 02	18 56 3	1°01' W
15406	" 207379	21 43.4	29 16	"	"	"	+10.0	19 00	19 34 3	0°40' W
15407	" 215956	22 43.8	28 12	"	"	"	+10.0	19 40	20 12 4	0°17' W
15408	~~AG 13821~~ HD 217351	22 ~~54.8~~ 55.0	29 ~~33~~ 32	"	"	"	+ 9.9	20 16	20 58 4	0°52' W
15409	H.D. 223094	23 41.5	28 09	"	"	"	+ 9.9	21 04	21 32 1	0°40' W
15410	" 2315	00 21.9	25 02	"	"	"	+9.9	21 36	22 08 1	0°35' W
15411	" 5585	00 52.5	28 59	"	"	"	+9.9	22 13	22 37 2	0°24' W
15412	" 10981	01 42.8	30 17	"	"	"	+9.9	22 41	23 21 2	0°37' W
15413	" 12232	01 55.0	29 27	"	"	"	+9.9	23 25	00 01 3	0°55' W
15414	" 18554	02 53.9	30 12	"	"	"	+9.9	00 05	00 45 3	0°41' W
15415	" 24501	03 46.9	26 22	"	"	"	+9.9	00 50	01 24 4	0°29' W
15416	" 26710	04 08.4	26 00	"	"	"	9.9	01 27	01 45 4	0°24' W
15417	" 30111	04 39.6	28 30	"	"	"	9.9	01 48	02 14 1	0°27' W
15418	" 32963	05 01.8	26 12	"	"	"	10.0	02 17	02 51 1	0°34' W
15419	" 39919	05 50.8	27 18	"	"	"	10.0	02 54	03 38 2	0°37' W
15420	" 46914	06 31.0	28 03	"	"	"	9.9	03 41	05 01 2	1°20' W

Nov. 1 MTW +10ˢ.2 STW +0ᵐ.0

Nov. 3 MC +07ˢ.2 SC +41ˢ.6 +08ˢ.4 +0ᵐ.0

Watch had stopped, L.

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp		REMARKS
56 3	1 01 W	28 37	0	8.65 G5	1-1-1	A.G. 25 2.5	Seeing poor !!
34 3	0 40 W	29 28	0	8.51 K0	1-1-1	" " 7.5	Seeing better
12 4	0 17 W	28 27	0-1	8.54 G0	1-1-1	" " 2.5	
58 4	0 52 W	29 47	0	~~8.72 G5~~ 8.4 A2	1-1-1	" " 7.5	
32 1	0 40 W	28 24	0-1	8.30 K2	1-1-1	" " 2.5	
08 1	0 35 W	25 17	0-1	8.51 K0	1-1-1	" " 7.5	
37 2	0 34 W	29 14	0-1	8.22 K0	1-1-1	" " 2.5	
21 2	0 27 W	30 30	0-1	8.72 G5	1-1-1	" " 7.5	
01 3	0 55 W	29 41	0-1	8.65 G0	1-1-1	" " 2.5	
45 3	0 41 W	30 24	0-1	8.60 G5	1-2-1	" " 7.5	
34 4	0 27 W	26 31	0-1	8.61 G0	1-2-1	" " 2.5	
45 4	0 26 W	26 07	0-1	7.83 G5	1-2-1	" " 7.5	
14 1	0 24 W	28 34	0-1	8.26 G5	1-2-1	" " 2.5	
51 1	0 39 W	26 16	0-1	8.50 G5	1-2-1	" " 7.5	
38 2	0 37 W	27 19	0-1	8.61 G5	1-2-1	" " 2.5	stray
01 2	1 20 W	28 01	0-1	8.90 G5	1-2-1	" " 7.5	l.ck

4.

Date Sunday Nov. 7-8, 1908 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15421	H.D.	67613	08 03.7	+25 51	I 12½	E 103a0	.008	+9.9	05 05	05 35 3	0 28 W
15422		72559	08 28.5	28 47	"	"	"	9.9	05 39	06 11 3	0 32 W
15423		79373	09 08.6	25 26	"	"	"	9.9	06 15	06 31 4-	0 13 W
			Focus Test							4	

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
5 35 3	0 22 W	35 42	0-1	8.54	K2	1-2-1	A. G. 35 — 2.5
6 11 3	0 32 W	28 37	0-1	8.53	G5	1-2-1	" " " — 7.5
6 31 4	0 19 W	25 11	0-1	7.99	K0	1-2-1	" " " — 2.5
4		O.T.B.				6/4	7.5

3 P.H. + 4

6.

Date 9/9 Nov 48 Bo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15424	HD 207470	21h 49.1	+28° 15	f 12½	103AO	.008Sw	+8.90	1854	1930 1	39m W
15425	AG 13518	22 27.7	+25 09	"	"	"	+9.00	1935	2015 2	31m W
15426	HD 4963	00 46.5	+27 13	"	"	"	9.0+	2153	2233 3	43m W
			Iowa Test							

Dome Temp 1900 +43 Focus 12.970 7

Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
39m W	28 28	1	8m.79	KO	1-2-1 AG 25	Hazy
35m W	25 19	0-1	8m.77	KO	1-2-1 "	Group 55 Visitors arrived. McMaster
43m W	27 32	0-1	8m.62	G5	1-2- " 5	Variable Haze.
	OTB?				6/4 8	Haze Thickening

4 PH loaded.

	HC	SC	MTW	STW
Nov. 10	+06.2	+58.3	+01.0	−0.4
			(adv. 1 min)	

8

Date Nov 28 Bal/W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15427										
15428										
15429										
15430	HD 1267	01 24.1	30 06	"	"	"	5.9	2222	2292	2 W
15431	HD 11120			"	"	"	5.3	2256	2329	7 W
15432							5.1	2332		

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.					REMARKS
	40m W	+25 55	1			2.5	1-2-1	A.G. 25	
	27m W	26 47	1-2	8.79	K0	7.5	1-2-1	"	50
	42m W	29 45	1-2	8.71		2.5	1-2-1	"	
	26m W	30 03	1-2	8.16	K0	7.5	1-2-1	"	
	31m W	27 01	2-3	8.18	G5	2.5	1-2-1	"	Thursday Nov 11-12 1948
	31m W	27 15	2-3	8.16	G5	7.5	1-2-1		Considerable cirrus
	0 49 W	30 00	2	8.75	G5	1-2-1	A.G. 25		25 cloud - mid night +
	0 20 W	25 27	2	8.41	G5	1-2-1	" "		7.5 [illegible]
	0 12 W	23 30	2	8.70	G0	1-2-1	" "		3 [illegible] 0500;
	0 19 W	26 41	2-3	8.44	K2	1-2-1	" "		8 cloud up [illegible]
	0 30 W	26 56	2-3	8.51	AG	1-2-1	" "		3 [illegible]
	0 20 W	25 05	2-3	8.55	[illegible]	1-2-1	" "		8 [illegible] W.
	0 39 W	27 26	2-3	8.58	G0	1-2-1	" "		3 [illegible] (field not drawn)
	0 39 W	27 27	2-3	8.56	G0	1-2-1	"		8
	0 14 W	29 55	2-3	8.89	K2	1			[illegible]

10

Date Saturday Nov 13th, 1943 Wm — Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1542	HD223019	23h 40m3	+25° 47'	1-12	Eastman	SET 088	+5.3	2023	2121	1
3	HD 3252	00 30.6	+28 32'	"	"	"		2125	(2151)	

Occn. of sunset, started at about 1015. 11.

FOCUS: 12.070

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0h53	+26°08'	0	8.34 K5	1-1-1 2.5 AGC5 Last obs't Nov 4 at 2h50m Tue 5h10m Clouds.
				8.62 G5	1- 7.5 " Clouds, mostly thin & frequent.
					HR HC MTW STW
					Nov. 15 +07.0 +1.098 -010 -0.5
					Tuesday, Nov 14/17. Mostly; showers - U.

12–

Date Wed. Thurs. 17-18/43 L.-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15432	H.D. 210789	22 07.7	24 55	I-12½	E103a-O	5 or 6	+6.9	18 49	19 17	1 37 W
15440	" 215944	22 48.7	27 36	"	"	"	+6.9	19 22	19 48	2 3 W
15442	" 218986	23 06.4	23 31	"	"	"	+6.8	19 53	20 03	2 25 W
15447	" 219458	23 17.5	25 22	"	"	"	+6.8	20 07	20 21	2 31 W
15448	" 224085	23 49.9	28 06	"	"	"	+6.7	20 25	20 41	2 49 W
15449	" 1406	00 13.1	29 49	"	"	"	+6.8	20 44	21 02	3 17 W
15450	3335	00 31.2	29 18	"	"	"	+6.7	21 06	21 28	3 45 W
15451	" 6274	00 58.6	26 03	"	"	"	+6.7	21 32	22 02	4 22 W
15452	" 10829	01 41.0	30 19	"	"	"	+6.7	22 07	22 27	5 1 W
15453	AG. 977	01 42.0	27 59	"	"	"	+6.6	22 30	22 54	5 4 W
15454A	H.D. 17356	02 42.3	29 56	"	"	"	+6.6	22 50	23 04	
10454	H.D. 245062	05:5	27 54	"	"	"	+6.6	00 25	00 37	1 [illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15455	[illegible]	[illegible]	30 14	[illegible]	[illegible]	[illegible]	7.1°	01 15	02 08	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.1	02 05	02 47	[illegible]

Clouds at sunset, clearing slowly after.

Focus 12.970

Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp		REMARKS
0 37 W	25 15	1-2	8.75 K0	1-1-1	AG 25	Set 2.5
0 32 W	27 51	1-2	8.62 G0	1-1-1	" "	" 7.5
0 25 W	29 46	1-2	7.77 K0	1-1-1	" "	" 2.5
0 31 W	25 38	1-2	7.99 K2	1-1-1	" "	" 7.5
0 19 W	28 21	1-2	8.12 K0	1-1-1	" "	" 2.5
0 17 W	30 06	1-2	8.23 K0	1-1-1	" "	" 7.5
0 25 W	29 34	1-2	8.44 G5	1-1-1	" "	" 2.5
0 32 W	26 17	1-2	8.77 G0	1-1-1	" "	" 7.5
0 14 W	30 33	1-2	8.30 G0	1-1-1	" "	" 2.5
0 40 W	28 14	1-2	8.40 G5	1-1-1	" "	" 7.5
	30 07	1-2	8.61 G5	1-	" "	" 2.5
0 36 W	28 12	1-2	8.77	G5	1-2-1	7.5
			5.55	G0		2.5
0 35 W	30 17	1-2	8.96	K2	1-2-1	2.5
0 25 W	25 51	2	8.71	K0	1-2-1	7.5

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Date Wed. Dec 17-1941 W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15457F	H.D. 13581	06 11·9	26 28	I - 12½	E 103a0	.005	+6·9	0 2 44	1
			Focus Test						

ing Time S.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		26 28		8.90 Kzl.	
		C T B			
					3¼ P.M. + 2
					NE SE NTW STW
				Nov. 22	+09.2 +1m 18s +11.2 -0.3

16

Date Nov. Nov. 12-23/48 Pa Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle East
				512	040		7.80			
1545 P	HD 17783	2h 49m	36 19					2249	2317	W
		Tracks Dark								

Starting 4
From 2970

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					1-24 Hazy. Some early cirrus
7	14m W	26 33	2-3	8m.69 KO	AG 2.5 Set 2.5
		STR			5/4 Hazy, Cloud Set 7.5
					3 Pht Loaded
					3 Plates in Book
					Nov 25/26 - Overcast, cirrus clouds - No
					MC SC MTW STW
					Nov. 26 +10.2 +1 22.0 +07.0 -0m.3

Date Sat Nov 27/48, 1948 Wm - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						S.T				
15459	HD 11781	01 30.5	+26 59	I - 12	E103a-C	0.8	+5.7	21 49	22 43 2	+00
15460	HD 21451	03.24.4	+25 56	"	"	"	+5.0	22 48	23 37 2	+17
15461	HD 24365	03 47 5	+27 50	"	"	"	+5.1	23 36	00 10 3	+35 W
15462	" 26081	04 02 6	25 38	"	"	"	+5.1	00 15	00 45 3	+5 W
15463	" 35585	05 05 2	26 21	"	"	"	+5.0	00 52	01 15 4	+4 W
	Focus Star					OTA				

After a couple of tries, really heavy clear at ~20 00. Stars & Loc to ~25 terminers while weather cleared.

ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1ʷ00	+27°12'	0-1	8.68 G0	1-1-1	set 2½	AG25 Considerable cloud
	0ʷ17	+26°06'	1-0	8.65 K0	1-1-1	set 7.2	AG25 "
	0 33 W	28 00	1	8.74 G5	1-1-1	set 2.2	AG25
	0 50 W	25 44	1	8.56 K0	1-1-1	" 7.5	" " some cloud.
	0 14 W	26 24	1	8.11 G5	1-1-1	" 2.5	" " sky filling in
					5/4	" 7.5	" " while setting on next star. Wisted, clearing at 3.00 still thick!
					Nov. 29	MC +11ˢ.9	MTW STW −00ˢ.6 −0ᵐ.4 reset

J.D

Date Wednesday Dec 1-2/48 W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15464	H.D. 33055	05 06 2	26 21	I 12½	E 103a0	.008	+2.0	00 47	01 03 1	1.11 W
15465	"	38 52	41.4 25 21	"	"	"	2.4	01 08	01 20 2	1.04 W
15466	"	40 38	05 52.7 25 46	"	"	"	2.5	01 24	01 38 3	1.16 W
15467	"	41 37	06 03 2. 27 13	"	"	"	2.5	01 41	02 41 4	1.01 W
15468	AG	05 35	07 07.6 28 44	"	"	"	2.1	02 46	03 42 1	1.11 W
	H.D. 68724									2.
15468F		Focus Test								

ng Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 20 W	26 24	1-2	X 11 G5	1-2-1	discarded, spoiled in development
	0 08 W	25 33	1-2	7.85 K0	1-2-1	
	0 05 W	25 47	2	7 85 K0	1-2-1	
	1 01 W	27 13	2	89 K0	1-2-1	clouds
	0 55 W	25 37	2	891 G0	1-2-1	
		Q T S				(on separate plate)

3.2

Date Thurs, Dec 2/, 1926 Hour VI Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						SOT				
				7 - 12			+2·0	22 11		3
				"	"	"	+2·0	23 01		4
				"	"	"	2·5	23 50	01 13	1
				"		"	2·2	01 19	01 43	2
				"		"	2·5	01 46	02 28	3
				"		"	2·2	02 32	03 01	4
				"		"	3·0	03 12	04 01	1
				"		"	2·6	04 14	04 55	2
				"		"	2·2	05 05	05 37	3

Hour Old

HAD TROUBLE W. RUBBER COUPLING ON AZIMUTH MOTOR, WHICH EFFECTED W.C. BEARING OF MOTOR

ng Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1ʷ 13	[illegible] 7'	0-	9·56	GO 1-1-1	AG25
	0ᵉ 57	[illegible]	0-	8·7ᵐ	KO 1-1-1	AG25
	0 38 W	26 35	0-1	9·58	GO 1-2-1	AG25
	0 16 W	27 16	2	8·08	K_0 1-2-1	
	0 11 W	28 27	2	7·82	K5 1-2-1	
	0 35 W	29 42	3	8·42	K_1 1-2-1	
	1 01 W	30 01	2-3	8·99	K2 1-2-1	
	0 53 W	30 41	2-	8·62	G_0 1-2-1	
	1 06 W	31 56	1-2	9·[illegible]	G[illegible]	
		0 T 0			6/4	
						4 P.M.

Date Friday Dec. 1-2 1911-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
15478	AG 2603	05 35.5	29 13	I-2½	E-0	Set 008	+4.2	10 32	01 19 1	E 15W
15479	ND 41436	06 00.0	29 06	"	"	"	+4.9	01 25	01 47 2	E 15W
15480	" 41336	06 21.7	29 19	"	"	"	+4.7	01 56	02 26 3	E 36W
15481	AG. 3682	06 55.3	26 28	"	"	"	+5.2 ?	02 32	03 02 4	E 57W
15482	" 4044	07 28.2	28 57	"	"	"	+5.2	03 06	03 36 1	E 49W
15483	ND 70638	08 18.2	30 04	"	"	"	+5.2	03 40	04 14 2	E 27W
15484	" 77444	08 57.4	27 37	"	"	"	+5.1	04 19	04 53 3	E 15W
15485	" 83341	09 32.6	25 48	"	"	"	+5.0	05 02	05 36 4	E 36W
15486	" 88416	10 00.6	27 36	"	"	"	+5.0	05 41	06 15 1	E 49W
	Sun Spot					O.T.13.				

nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
					Found nice bird on. Objekt hat to be chased up around 22	
19 1	0 15 W	29 14	1	8.70 G_0	1-1-1	AG.25 Stage
47 [illegible]	0 19 W	29 06	1-2	8.58 K_2	1-1-1	" "
22 3	0 36 W	29 17	1-2	8.84 K_5	1-1-1	" "
[illegible]	0 35 W	26 18	1-2	8.52 G_5	1-1-1	"
36	0 40 W	28 51	1-2	8.86 G_0	1-1-1	"
[illegible]	0 27 W	28 55	1-2	8.95 G_0	1-1-1	"
[illegible]	0 22 W	27 24	1-2	8.93 K_2	1-1-1	"
[illegible]	0 36 W	25 36	1-2	8.91 G_5	1-1-1	"
[illegible]	0 41 W	27 21	1-2	8.56 K_0	1-1-1	"
					6/4	Last Obs. Time
						Start on mirror

26

Date Sept 4-5 1940 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
[illegible]	[illegible]	22 ~~18.1~~ [illegible]	[illegible] ~~15~~	[illegible]	[illegible]	[illegible]	+8.2	17 57	19 21	W
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+8.1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8.0	19 17	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.9	19 59	[illegible]	35' W
[illegible]	[illegible] 5817	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	7.9	20 33	21 15	[illegible]
[illegible]	[illegible]	[illegible]	27 15	[illegible]	[illegible]	[illegible]	7.9	21 21	[illegible]	[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	48" W	30 30	2-1		1-2-1	number illegible
	43" W	2 31	1		1-2-1	"
	43" W	30 28	1-2		1-2-1	"
	35" W	19 15	1-2		1-2-1	" number illegible
	16" W	10 5	1		1-2-1	"
	2" W	49 13	0		1-2	"

	MC	SC	MTW	STW
Dec. 6	+17.6	+1m 22.6s	+05.4	-0m 4

28

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15496	[illegible]	01 11.6	[illegible]	"	"	"	3.9	20 57	21 21	
15497	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15498	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15499	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15500	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15501	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15502	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15503	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15504	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]									
	[illegible]									

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
49° W	24 20	0-	8.87	1-2-1	AERS
	25 10	0-1	8.70	1-2-1	"
2° W		0-1	8.20	1-2-1	"
3° W			8.32	1-2-1	"
34 W	27 23	0-1	8.24	1-2-1	"
36 W		0	8.19	1-2-1	"
0 49 W		0-	8.00	1-2-1	"
0 42 W	26 36	0-1	8.51	A-G 1-2-1	" Windy
0 24 W	26 32	0	7.85	K0 1-2-1	"
0 13 W	25 30	0	8.77	G0 1-2-1	"
0 3 W	24 56	0	8.27	K2 1-2-1	"
1 0 W	24 07	0-1	8.56	K0 1-2-1	" wind down, fog gathering
			8.74	K-	wind up again; to hazy & windy to collimate.
	O. T. B.			6/4	
					3 P.H. tt.

30

Date Wed 8-9 [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15504 A	HD 214331	22 47.0	27 30	[illegible]	[illegible]	[illegible]	1.9	1759	1817	3.4 W
15505	[illegible]	[illegible]	[illegible]	-	-	-	1.1	1834	1903	[illegible]
15506	HD 223252	23 [illegible]	27 49	-	"	-		1907	1933	[illegible]

ERROR IN PLATE #

...nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
...17	35" W	29 48	1	F69 KO	1-2-1 AG 25	(plate numbered same as preceding plate)
...23	31" W	26 15	1	8.63 G5	1-2-1	number hard to read
...35	39" W	1= =6	1-2	8 75 KO	1-2-1	Shooting Star

Date Thurs Dec 9-10/60 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15507	HD. 216455	22 48.0	28 51	J-12½	E-103a-O	Set .045	+0.8	17 55	19 15 2	1 31 W
15508	" 216456	22 49.0	28 06	"	"	"	+0.8	16 10	18 50 3	1 49 W
15509	AC 14155	23 [illegible]	25 13	"	"	"	+0.9	18 43	19 11 1	1 [illegible] W
15510	HD. 247	00 [illegible]	25 04	"	"	"	+0.9	19 15	10 30 2	1 [illegible] W
15511	AC 514	01 [illegible]	26 30	"	"	"	+0.9	20 21	P.M. 16 3	1 [illegible] W
15512	HD 12260	01 53.2	19 04	"	"	"	+0.9	21 08	21 28 4	1 [illegible] W
15513	" 14049	02 16.5	27 13	"	"	"	+0.8	21 32	21 [illegible] 1	1 [illegible] W
	Same Spot				C.T.13.					

Hour Angle End	Declination	Seeing	Ptg. Mag.	comp	REMARKS
0 21 W	29 10	2	8 49 G_0	1-1-1	A.G. 25
0 45 W	28 21	2	9 48 K_2	1-1-1	" "
0 33 W	25 29	2	8 85 G_5	1-1-1	" " Late one at 19.30
0 22 W	26 11	2	8.49 K_0	1-1-1	" " 8 min of clear sky then thickening
0 30 W	27 15	2	8.89 K_2	1-1-1	" " Clearing again.
0 21 W	29 15	2	8.65 K_0	1-1-1	" "
0 27 W	27 27	2	8.72 K_0	1-1-1	" " 15 min of fair clear sky
				6/4	thin cloud

Four - cents to rub.

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Date Fri Dec 10, 1948 Wm-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15 515	HD 2732	00°25.7	+23°01'	I-12	E103a-O	slit .008	0.0	19h 31m	20 03	1
15 516	HD 9884	01 32.4	+25 21	"	"	"	0.0	20 18	21 00	2
15 517	HD 13610	02 17.7	+24 55	"	"	"	0.0	21 05	21 45	3
15 518	HD 18390	02 50.2	+25 41	"	"	"	0.0	21 52	22 32	4
16 519	HD 21 320	03 47.8	+26 24	"	"	"	-0.3	22 46	23 22	1
5 520	HD 21 781	04 53.5	+26 05	"	"	"	-0.2	23 27	0h 03	2
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	0.1	00 29	[illegible]	3
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	01 00	01 38	4
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	0.0	01 46	02 24	1
15 524	[illegible]	[illegible]	[illegible]	"	"	"	0.0	02 55	[illegible]	2

Dome Temp. 5 / 5

Inj from 12.960

Set Focus 12.960

Closed at sunset.
Began to [illegible] at ~ 18 30
Had considerable trouble getting stable bridge setting, partly caused by making satisfactory setting, which [illegible] small [illegible]. Tues 5 Nov 18 01 [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0" 46	+20 · 5	0	8·77 KO	1-1-1	AG 25
	0" 26	+25 38	0+	8·36 KO	1-1-1	AG 25
	0" 36	+25 05	0-	8·34 GO	1-1-1	AG 25
	0" 13	+25 13	0	8·32 G5	1-1-1	AG 25
	0" 22	+26 · 5	0+	8·77 G5	1-1-1	AG 25
	0 30W	+16 10	0+	8·91 G5	1-1-1	AG 25
	0 05 W	25 31	1	7·55 K0	1-2-1	AG 25
	0 46 W	27 19	2	5·61 G5	1-2-1	AG 25
	0 25 W	27 07	1 2	8·22 K0	1-2-1	
	1 12 W	29 · 5	2	5·63 K5	1-2-1	
		[illegible]			5/1	
						2 FH = 41
						H = Y.

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Date Sat Dec 11-12 1948 Hd - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15525	Mrk 452 HD 223501	23 45.0	61 39	I-12	E 103a0	008	-1.1	19 28 ~~19 21~~	2300 3	+1.17
15526	Mrk 452 HD 223501	23 [illegible]	61 [illegible]	"	"	"	-1.1	20 04	2028 4	+1.32
15527	Mrk 452 HD 223501	1 45.6	61 12	"	"	"	-1.1	20 42	21 22	+1.27

Wind & haze at sunset – calcite seems hazy.

Bridge balance seemed to shift from one to the other in 1st half-hour.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
W 1 17	61 55	1	8.2 B3e	1,1,1 Set 9 – Wrong * at first
W 1 32	55 18	1	7.6 B1e	1,1,1 "
W C 28	59 29	1	8.2 B3e	1,1,1 " * clear

Sunday Dec. 12-13-14 0 1.00

Sun + telescope displaced slightly during night due to wind. Very strong wind blowing, some high clouds, decided not to open.

Beaten; miserably! W.

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Date 9pm Dec 13 1962 L- W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15328	NO 32387	04 37.2	24 32	T 12½	Eastman O	50T 506	18.5	23 50	01 17 2	
15329	" 4,956	06 06.2	12 04	"	"	"	2.9	0 28	02 38 3	
15330	" 5,116	07 10.7	25 00	"	"	"	2.9	02 27	03 45 4	
15331	" 7,811	08 22.1	29 05	"	"	"	2.9	03 50	05 13 1	
15332	" 9,128	10 10.0	22 07	"	"	"	2.9	05 18	06 12 2	
15333	" 10,094	11 32.0	21 19	"	"	"	2.8	06 15	06 52 3	

Zero Set

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	1 30 W	24 56	0	8 C 6 5	1-2-1	A.G. 25
	1 07 W	25 31	0	8·65 Mo	1-2-1	" " clouds.
	1 11 W	24 08	0	8·64 Gc	1-2-1	" "
	1 21 W	24 14	0	8·89 Gc	1-2-1	" " clouds
	1 05 W	24 02	0	8·79 Gc	1-2-1	" "
	0 35 W	22 03	0	8·61 Ko	1-2-1	" "
		C. I. B.			6/4	
						1 P.H. + 12

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cover on plate number

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
34 /										
35										
36										
37										
38										
39										
40										
41										
42										
43							?			
44							?			
44										

ding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	[illegible] W	[illegible]	-1	[illegible]	1-2-1	
	36° W	[illegible]	-1	[illegible]	1-2-1	"
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	31° W	[illegible]	-1	[illegible]	1-2-1	"
	[illegible]° W	[illegible]	0	8.51 65	1-2	" Hazy Cirri [illegible]
	45° W	[illegible]	-1	[illegible]	1-2-1	"
	54° W	[illegible]	[illegible]	[illegible]	1-2-1	"
	[illegible]° W	[illegible]	-1	[illegible]	1-2-1	plate not numbered
	37° W	[illegible]	-1	[illegible]	1-2-1	
	[illegible]° W	[illegible]	1	[illegible]	1-2-1	
	[illegible] IV	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
					[illegible]	
					[illegible]	
		C T B.			[illegible]	
					[illegible]	
					[illegible]	

* last night's numbers wrong. Too much to think right again.

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Date Fri Dec 17-18, 1948 HL Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15545 *	HD 224272	23 56.4	30 11	I-12	E103a-O	.008	-2.0	18 41	17 54	

Sun Dec 19-20 HL

Clearing ~ 2000 - 2100. Clouds ~ 2200. Decided to try dome opening anyway (snow today). Opened reasonably well but much trouble closing (Couldn't get pin back in clutch lever after trying to shift to hand control) Broke one key trying to lock gallery door (Key now in lock)

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	30 26	0	8.40 G_0	1-1-1	Clouds.
				Dec. 20	MC $+33^s.6$ SC $+1^m\ 08^s.7$ MTW $+05^s.6$ STW $-0^m.1$ (adv. 1 min.)
				Tues Dec 21, 22 '15	Solid overcast early; some breaks ~2200

Date Thurs Dec 25th, 1919 Nm - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15546	HD 3714	0, 30·0	+17, 41	I-12	E103a-O	2mm	-2·0	1853	1857	1
15547	HD 18 180	2 [illegible]	+17 41	"	"	"	-2·0	2105	2109	2
15548	HD 24 355	03 40·5	+27 50	"	"	"	-2·3	2215	2319	3
15549	HD 30 456	05 07·4	+25 [illegible]	"	"	"	-2·1	2323	[illegible]	4
	Florence Steel				O.T.B					
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
	Thurs 25 16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

From Dec 26-27 Cloudy at first, clearing briefly, then thick again.
Have up at 1200.

Variable conditions, cloudy after midnight, seeing poor

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
1ᵐ15	+25 51	C!	B-B65	1-1-1	
1ᵐ09	+25 55	C!	B-B65	1-2-1	"
1ᵐ19	+23 00	C!	B-B65	1-2-1	"
0 38 W	25 04	C	B-B65	1-1-1	" large bright star. star good
				6/4	

4 plate holders loaded
2 plates in one top and 12 in second
9 stations

	MC	SC	HTW	STW
Jan. 3	+09ᵐ 30.ˢ7	+44.ˢ2	-11.ˢ8 reset	+0.ᵐ1

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Date Night Jan 1-4 1902 L.V. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
15150	HD. 3161	00 46.4	28 02	I-12½	E 120.0	Set 2002	-2.0	18 18	19 15 1	46
15151	" 11650	01 49.2	27 20	"	"	"	-2.0	19 25	20 09 2	37
15532	" 17306	02 46.3	29 36	"	"	"	-2.0	20 15	21 05 3	31
15533	" 24301	03 45.3	26 22	"	"	"	-2.1	21 10	21 42 4	24
15534	" 30111	04 37.6	28 30	"	"	"	-2.0	21 57	22 [illegible] 1	16
15535	" 33463	05 08.3	29 16	"	"	"	-2.1	22 34	23 14 2	9
15536	" 44321	06 45.5	28 32	"	"	"	-2.1	23 15	23 [illegible] 3	14
15537	" 45421	06 [illegible]	27 42	"	"	"	-2.1	00 05	* [illegible] 4	21
		Focus Test								

Focus ?

nding Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
					Last one time before discovering watch set one hour ahead of correct S.T.	
	C 46 W	28 16	01	8.16 G5	1-1-1	16.25
	C 42 W	27 35	01	8.49 G5	1-1-1	"
	C 38 W	30 07	0	8.65 G5	1-1-1	"
	C 34 W	26 51	0	8.61 G0	1-1-1	"
	C 30 W	28 33	0	8.26 G5	1-1-1	"
	C 26 W	29 42	0	8.31 M2	1-1-1	"
	C 22 W	25 00	0	8.41 K2	1-1-1	"
	1 C 18 W	27 39	0	8.37 K2	1-1-1	" Hazy - Telescope out of focus. Stars big
		D.T.B.			6/4	
						Z R H = 5
						H. on M.
					Thurs. Jan 6/17 '43 Solid cast, snow-flurries	

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Date for Jan 7-8, 1918 AE-W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15535	4 ζ 17733	02 48.1	29 42	I-12	E1032.0	008	+2.2	20 40	21 40 1	
15536	HD 20202	3 09.3	44 33	"	"	"	+2.1	21 04	22 24 2	
15537	HD 37115	5 31.6	-5 01	"	"	"	+2.1	22 44 22 30	23 05 3	
15538	HD 23408	3 40.4	47 53	"	"	"	+2.2	23 36	0 m 4	
15539	HD 30[illegible]	4 47.1	-0 11	"	"	"	+2.4	00 07	00 39 1	
15540	[illegible]	2 02.4	-1 31	"	"	"	+2.4	01 [illegible]	01 [illegible] 5	
			Focus Shot							

Cloudy after sunset, then broken + cloudy again

Form 12.960

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	W 1 41	29 54	1	8.82 Go	1-1-1	* Corbo print (one may be on flat)
	W 1 23	29 46	1	7.8 Bne	1-1-1	Be prog (3rd disp) had at first. differential gears stopping
	W 0 26	-5 39	1	8.2 Bpe	1-1-1	Be prog. Set ✗ (wrong * at first)
	W 2 38	+0 07	1	8.6 Bne	1-1-1	Be prog. went off gear stopping repeatedly
	1 22	- 0 15		8.3 Bne	1-1-1	" " " " " "
	0 54	- 1 28	1	8.1 Bne	1-1-1	" " " " "
		C. T. B.			6/4	

H. on N.E. + S.W. corners of PLATE

Check chronometer immediately at Clinton.

B + H removed dark slide; started Exp., finished at 11 P.M.

Tues, Jan 11/12 — Overcast, clearing 22h-23h 15m.

FRI
Date Jan. 14/15, 1943 Wm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15569	AD 19206	01 [illegible]	+27 [illegible]	1-12	[illegible]	SLIT .065	-2 0	19 07	19 [illegible]	[illegible]
15 570	HD 14 473	02 15.2	+3 [illegible]	"	"	"	-2.1	[illegible]	[illegible]	[illegible]
15 566	HD 23 169	03 37.0	+25 [illegible]	"	"	"	-2.1	[illegible]	[illegible]	[illegible]
15 567	HD 39 313	05 40.2	+20 [illegible]	"	"	"	-2.2	[illegible]	[illegible]	[illegible]
15 568	HD 41 009	06 03.2	+27 [illegible]	"	"	"	-2 2	[illegible]	[illegible]	[illegible]
15 [illegible]	HD 43 005	06 36.2	+22 [illegible]	"	"	"	-2 1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	-2 2	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	-2 1	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]							
						Sat, Jan. 23/43		[illegible]		
						Tue, Jan. 26/43				

recd 12-960

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0ʰ17	+28°13'	P.	8.95 KO	1-1-1 AG25
	1ʰ24	+30°26'	P	3.83 G5	1-1-1 AG25
	1ʰ10	-25°35'	P	8.64 GO	1-1-1 AG25
	0ʰ22	+29°20'	P	9.57 G5	1-1-1 AG25
	0ʰ53	+17°12'	P	8.90 KO	1-1-1 AG25
	1ʰ0ʰ	+5°25	P	9.33 GO	1-2-1 AG25
	1ʰ0ʰ	22 12	P	5.42 Ko	1-1-1 Light absorption Six 6150-6220
	0ʰ54	24 45	P	4.10 G5	1-1-1 " "
	0ʰ33	14 20	P	6.22 Ko	1-1-1 Interstellar absorption F. Eridanus
		0 T.B.			4/4 - Set 2
					2 P — + +
					Hazy
					Jan 7 MS +24°C SC +29°1 MTW -01°0 STW -02°2
		←			Tues. Jan 18-19 '49. Solid overcast, drizzle. Wm
					1- 2- -04 -01° +01°1

Date Sat Jan 29-30, 1909 Mid - N/m Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15573	H 0,6 4553	07 50·7	26 22	I-12	E103a-O	4"	-10·0	23 44	[illegible] 2	
15574	MD 31 5505	08 20·3	+25 50	"	"	"	-3·7	00 41	02 12 3	1h09
15575	MD 30 6A2	10 23·1	+47 25	"	"	"		02 18	4	

Year O'clock glass

Jan. 26 MC +08.2 SC +23.5 MTW +03.0 PTW +0m1

Clear about 1830. Dome turning properly. H + Hd freed with alcohol under wheels. 0'cast with snow 2000 - 2230. Opening at 2300 had difficulty with differential gears in ~~dec~~ drive dragging. Oiled.

Form 12.960

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1ᵐ01	+26 16	0	8.62 Ko	1-1-1	AG 25	
	1ᵐ09	+26 34	0	8.66 G5	1-1-1	AG25	"
				8.96 K5	1-	AG25	* - Solid o'cast
					H on M	—	Need plates in dome.

54

1949

Date Sun Sun 30/31 Dec/Jan. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Filt	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15576	~~HD 14443~~	~~2 115 27~~	~~12~~	~~I-32~~	~~E103a-C .002"~~		~~-0.2~~	~~1913~~	~~1914~~	1
15576	[illegible]	24 09	24 00	"	"	"	-8.0	1958	[illegible]	1
15577	HD 32443	05 08	24 12	"	"	"	-8.0	2021	[illegible]	2
15578	HD 3283	05 01	29 48	"	"	"	-7.7	2123	[illegible]	3
15579	HD 41454	01 02	24 [illegible]	"	"	"	-7.7	2145	[illegible]	4
[illegible]	HD 41854	0 25	29 11	"	"	"	-8.0	2252	[illegible]	1
15581	HD 5048	07 08	24 31	"	"	"	-8	[illegible]	[illegible]	2
[illegible]	HD 45754	07 01	[illegible] 55	"	"	"	[illegible]	[illegible]	[illegible]	3
15583	HD 71044	08 03	29 56	"	"	"	-5.3	[illegible]	[illegible]	4
10584	HD. 35421	05 26.2	27 16	"	"	"	-5.6	0110	0230	1
15585	[illegible]	[illegible]	29 44	"	"	"	-5.5	0234	[illegible]	2

Focus Set

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
		27 27	0	872 KO		Pan query in Sag. Star Cloud
	7ᴹ W	26 58	0	793 G5	1-2-1	Sat 7.5 AB5
	7ᴹ N	26 16	0	850 G5	1-2-1	AB5
	2ᴹ W	29 47	0+	777 G0	1-2-1	AB5
	3ᴹ W	26 32	0+	854 KO	1-2-1	Hazy AB5
	3ᴹ W	27 09	0+	832 KO	1-2-1	Hazy AB5
	3ᴹ W	26 40	0+	863 KO	1-2-1	AB5
		27 47	0+	870 K	1-2-1	AB5
	1 05 W	27 48	0-1	842 KO	1-2-1	AB5 Looks through Glass?
	1 24 W	27 03	1	896 G5	1-2-1	Star Cluster
	1 22 W	27 25	1	854 KO	1-2-1	"
		S.T.A.			6/4	
						H. on M. 4 fields. PLATES NEEDED.
						MC SC MTW STW
					Jan. 31	+09.2 +19.1 +25ˢ.2 +0ᵐ.5

Date Tues Feb 1-2 1927 Mt. L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15586	H.D. 94554	06 05.7	21 31	10-in	Seed 40	208	-5.3	21 38	22 16.7	W 0.38
15587	H.D. 95209	06 47.1	-0 10	"	"	"	-5.3	22 20	22 58.2	W 0.59
15588	H.D. 97721	06 32.2	-11 09	"	"	"		23 03	23 07.3	W 1.40
15589	H.D. 41077	07 51.9	+03 14	"	"	"	-5.4	23 15	23 37.4	W 0.14
15590	H.D. 68754	08 08.6	27 01	"	"	"	-5.3	23 42	00 36.1	E 0.55 N
15591	" 86801	09 55.9	29 02	"	"	"	-5.3	00 44	01 34.2	E 0.07 N
15592	" 95364	10 55.5	24 37	"	"	"	-5.4	01 38	02 29.3	E 0.56 N
15593	" 104392	11 56.2	24 47	"	"	"	-5.3	02 33	03 23.4	E 0.04 S
15594	AG G240	12 43.4	25 41	"	"	"	-5.3	03 29	04 25.1	E 0.14 N
15595	H.D. 121184	13 48.8	24 40	"	"	"	-5.3	04 33	05 27.2	E 0.07 N
15596	" 133022	15 02.0	26 49	"	"	"	-5.3	05 32	06 36.3	E 0.16 N
	Same Spot				O.T.B.					

cloudy spells becoming dense frequent by 2100

Set focus 17.750
Dome Temp. +20

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	W 0 38	2? 2?	0	8.68G5-	1-1-1	Some clouds.
	W 0 59	-0 15	0	8.3 B(5)ne	1-1-1	MWC 159 *
	W 0 40	-11 14	0	6.6 B9e	1-2	" 164 Hard to judge guiding
	W 0 14	-13 05	0	7.7 Bne	1-1-1	" 188 * with no strong wind
	0 55 W	26 56	0	8.96 G5-	1-1-1	AG 25 Strong wind
	0 07 W	28 48	0	8.93 G0	1-1-1	" " "
	0 02 W	24 20	0	8.82 G5	1-1-1	" " "
	0 04 E	24 30	0	8.92 K0	1-1-1	" " "
	0 14 W	25 25	0	8.99 K2	1-1-1	" " "
	0 07 W	24 25	0	8.96 K0	1-1-1	"
	0 04 W	26 38	0	8.92 K2	1-1-1	" wind subsiding, some clouds.
					6/4	

1 plate holder lost 4 plates exposed on night

* Cannot read plate nos.; book read 15589

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1949

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15917	M 17351	02 42	40	5-1	103a-D		-55	1820		
15918	M 33871	02 46	38 37	"	"	"	-55	1849	1935	
15919	M 4694	02 46	25 38	"	"	"	-55	1937	2004	
15920	M 41430	02 00	27 06	"	"	"	-55	2014		
15921	M 40460	01 [illegible]	27 17	"	"	"	-55	2050	2103	
15922	M 11280	01 [illegible]	25 40	"	"	"	-55	2113	2127	
15923	M 41414	01 [illegible]	27 [illegible]	"	"	"	-55	2132		
	[illegible]				OT 15					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	37° W	26 52	0	[illegible] Ko	1-2-1	66.5
	51' W	29 33	0	[illegible] Ko	1-2-1	"
	34' W	25 06	0-1	[illegible] Ko	1-2-1	"
	43' E	21 [illegible]	0-1	[illegible] Ko	1-2-1	"
	14' E	17 17	0-1	[illegible] Ko	1-2-1	"
	6' W	15 47	0-1	7.95 Ko	1-2-1	Clouds
		13 3	0-1	[illegible] Ko	1-2-1	Clouding Up. Thin [illegible]
					1-2-1	[illegible]
						Thin, Fair 3/4 Snow Wa

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Date Sat., Feb 5/6, 1949 Wm-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle
						SET					
15604	HD 24505	03 48·8	+27 54	I-12	I-103-O	008	-2·3	18 35	19 25	1	0ᵐ19
15605	HD 25461	03 57·6	+28 56	"	"	"	-2·4	19 30	20 20	2	1ᵐ06
15606	AG 2603	05 35·5	+29 13	"	"	"	-2·5	20 27	21 25	3	5ᵐ33
15607	HD 45824	06 24·6	+26 43	"	"	"	-2·6	21 32	22 32	4	0ᵐ51
15608	HD 60235	07 28·4	+28 44	"	"	"	-2·7	22 33	23 30	1	0ᵐ46
15609	HD 70178	08 15·5	+29 07	"	"	"	-2·5	23 35	00 27	2	0ᵐ56
15610	SO 81y	09 14·9	26 12	"	"	"	-2·4	00 31	02 11	3	1ᵐ14
15611	96398	11 01·6	26 17	"	"	"	-2·6	02 15	03 30	4	4ᵐ
15612	103605	12 23·0	26 41	"	"	"	-2·6	03 35	04 23	1	1ᵐ
		Focus Test									

Focus 12.948

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0ʷ19	+28 01	0	8·77 G5	1-1-1	AG 25
1ʷ06	+29 03	0	8·75 KO	1-1-1	AG 25
0ʷ33	+29 14	0	8·70 GO	1-1-1	AG 25 Some haze & cloud
0ʷ51	+26 41	0	8·72 KO	1-1-1	AG 25 " " " "
0ʷ45	+28 36	0	8·60 K2	1-1-1	AG 25
0 56W	28 56	0	8·65 G5	1-2-1	AG 25
1 39 W	25 57	0	8 65 G5	1-2-1	AG 25 HAZE THICKENING
1 14W	25 57	0	8 79 G5	1-2-1	AG 25 "
0 48W	26 01	0	879 G5	1-2-1	AG 25 "
	O. T. B.			6/4	

4 P.M. + 5

H. on X

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1949

Date Nov 7th Cont'd Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15613	HD 20630	03 14.7	66 34	1.5	103a-O		-3.0	1815	1900	1
15614	24760	03 51.2	65 00	"	"	"	-2.7	1903	1929	2
15615	25876	03 54.1	27 52	"	"	"	-2.7	1933	1953	3
15616	41708	05 01.7	27 27	"	"	"	-2.7	1958	2024	4
15617	42981	05 09.7	25 17	"	"	"	-2.7	2028	2110	1
15618	43383	05 11.8	25 31	"	"	"	-2.7	2123	2159	2
15619	51689	06 53.5	25 23	"	"	"	-2.7	2206	2306	3

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
35" W	[illegible] 45	0	[illegible] 84	65 1-2-1	[illegible]
28" W	[illegible] 09	0	8.41	65 1-2-1	"
42" W	[illegible]	0	8.01	65 1-2-1	"
47" E	[illegible] 37	1	[illegible]	60 1-2-1	"
[illegible]" W	25 17	1	8.3	K2 1-2-1	"
3" W	25 30	1-0	8.77	60 1-2-1	"
1[h] 04" W	25 18	1-0	9.4	60 1-2-1	"

Date Thurs. Fri 8-2/43 L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15620	H.D. 32093	04 55.6	26 30	I - 12½	E-103a-O	S.T. .008	+0.8	19 40	20 20 /	0 15W

Delayed start because of haze

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	comp.	REMARKS
26 35	0 19W	26 35	0	3.28 6s	1-1-1	AG. 25 9 stars
						Clouding over while setting on sept star.
						4 holders loaded At end the mirror
						Clear at midnight, but too windy
						to open. Wind getting stronger. W.

Date Wed Feb 9/10, 1949 Wm - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	HD 43581	05 11.9	+26 28	I-12	E103a-O	SCT 009		2033		1
15621	H.D. 87804 10 02.4	27 16		I-12	E103aO	.008	-0.2	0059	02 17	2
15622	99447 11 21.8	25 27		"	"	"	+0.5	02 22	03 26	3
15623	104463 12 29.8	21 47		"	"	"	+0.5	03 29	04 35	4
15624	119+48 02+0.2	29 29					+0.5	04 38	05 30	5
15625	131009 14 09.9	28 05					+0.5	05 34	None 06 08	2
	Focus Test									

Cloudy at sunset; gradually clearing from ~1900

Focus: 12.948

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
				8.90 K2 T.	AG25
	1 15 W	+27 01	0	8.82	K0 1-2-1 A.G. 25
	1 01 W	25 09	0	8.72	K0 1-2-1
	1 06 W	24 30	0 -	8.56	K2 1-2-1
	0 51 W	23 12	0-1	8.51	G5 1-2-1 HAZE.
	0 21 W	28 42	0-1	8.79	G5 1-2-1 HAZE INCREASING
		C.T.E.			6/4
					2/3 P H + 5 H. ON M.

	MC	SC	MTW	STW
Feb. 14	+10.8	+05.0	$-0^{s}.2$	$-0^{m}.1$

Tues. Feb 15/16. - Crescent [illegible], Wn.

Date Thurs Sept 17/18 -1949 L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15626	HD 29246	04 31.5	25 32	I 12½	E-103A₀	5-5 008	-3 2	18 55	19 29 3	37½
15627	" 41708	06 01.7	27 27	"	"	"	-3.2	19 35	20 15 4	17E
15628	" 44030	06 14.4	25 39	"	"	"	-3.2	20 20	21 00 1	16½
-	Focus Spot				O.T.E.					

Focus. 12.048

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	0 37W	25 39	0	8.48 Ke	1-1-1	A.G. 25 only star in field!
	0 17E	27 25	0	8.58 Go	1-1-1	" "
	0 16W	25 37	0	8.82 Kg	1-1-1	" " Clouds for last 10 min. of
					6/4	exp. Star gone at 21.00
						Closed late, sky remaining thick
						3 Phs loaded
						Opened on Jupiter.

1949

Date Fri Feb 18/19 Prov. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15629	HD 21162	03 21.2	[illegible]	[illegible]	103AO	[illegible]	+5	1944	1[illegible]	[illegible]
15630	91708	04 01.7	27 17	"	"	"	+5	1928	[illegible]	[illegible]
15631	AC 4954	[illegible]	[illegible]	"	"	"	+6	[illegible]	[illegible]	[illegible]
15632	AG 9034	07 36.2	[illegible]	"	"	"	+6.5	2057	[illegible] 43	[illegible]
15633	HD 47826	06 13.9	27 11	"	"	"	+6.6	2146	2322	[illegible]
15634	70654	08 16.2	29 04	"	"	"	+6.4	2345	2312	[illegible]
15635	75 9/35	08 47.9	27 13	"	"	"	+6.9	2417	[illegible]3	[illegible]
15636	81058	[illegible]	[illegible]	"	"	"	6.9	0005	0037	1
15637	90442	10 21.4	27 10	"	"	"	6.4	0040	0126	2
15638	96234	11 00.7	24 45	"	"	"	6.3	0130	0218	3
15639	103964	11 46.6	26 17	"	"	"	6.0	0221	0321	4
15640	114636	12 06.7	26 04	"	"	"	6.0	0323	0415	7
15641	123717	12 45.0	25 18	"	"	"	6.0	0418	0512	2
15642	136231	13 19.4	26 05	"	"	"	6.0	0516	*gone 0604	3

Focus Test

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1° 01' W	25 39	0-	8.91 G5 1-2-1	
	35' E	27 27	0	8.58 G0 1-2-1	"
	11' W	25 11	0	8.68 G5 1-2-1	"
	45' E	28 51	0	8.82 G0 1-2-1	" thrown away.
	27' E	27 02	0	8.85 K0 1-2-	"
	3' W	25 55	0-1	8.95 G0 1-2-1	"
	50' E	27 07	0-1	8.77 K0 1-2-1	"
	0 54 W	26 05	1	9.02 K0 1-2-1	"
	0 40 W	26 55	1	8.86 G5 1-2-1	"
	0 53 W	26 30	1	8.91 G5 1-2-1	"
	0 50 W	26 01	1	8.93 G0 1-2-1	"
	0 45 W	26 37	1	8.96 K0 1-2-1	"
	0 44 W	26 04	1	8.92 K5V-2-1	"
	0 26 W	25 57	1	8.96 G0 1-2-1	Hazy about getting
		O.T.B.			
					1 PM = 16

Date Sun Feb 20-21/49 HC-IV. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15643	MW 114 HD 37115	5 31.0	−5 41	I-12	Σ103a0	008	−0.9	19 29	19 53 4	
15644				"	"	"	−1.1	20		
15645				"	"	"	−1.0	21 07	21 41 2	
15646								21	21 54 3	
15647				"	"	"	−1.1	22 01	22 17 4	
15648	MW 149			"	"	"	−1.1		22 57 1	
15649				"	"	"	−1.0	23 01	23 41 2	
15650				"	"	"	−1.1	23 47	00 29 4	
15651				"	"	"	−1.1	0 0 24	0 1 28 1	
15652				"	"	"	−1.1	0 1 32	0 2 36 2	
15653				"	"	"	−1.1	0 2 40	0 3 36 3	

Second Set

Some Cu clouds at first.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	W 05	−5 41	0	8.2 B5n	1-1-1	Be prog.
	W 09	+26 14	0	5.5 M0	1-1-1	
	W 037	−0 15	0	5.3 B[illegible]	1-1-1	
	W 041	−1 45	0	6.6 B3n	3	
	W 09	+3 05	1	7.7 B3n	1-1-1	
	W 47	−1 29	1	8.1 B[illegible]	1-1-1	Wrong * on set 5; right one on set 9.
	W 50	−28 40	1	5.52 G0	1-1-1	
	O 55W	25 57	1	7.85 G5	1-1-1	
	O 57W	29 37	1	8.98 G0	1-2-1	
	O 57W	25 11	1	8.95 K2	1-2-1	clouds
	1 02W	21 34	1	8.93 K2	1-2-1	more clouds [illegible]

Cloud 0.30
+ O.W. + #2 N on #5

	MC	SC	HTW	STW
Feb. 21	+10m.2	−00m.8	−09m.8 adw	+ 0m.1

Date Sat Feb 26-27/49 Hd-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15654	HD 50513	7 12.2	27 19	24-12	103a0	0.8	-3.8	21 11	21 41	
15655	12 - 50417	01 48	27 19	"	"	"	-3.7	22 03	22 53	
15656	4 = 3867	08 18	10 52	"	"	"	-3.9	23 57	23 45	
15657	" V 43807	09 38	25 25	"	"	"	-3.7	23 45	01 02	
15658	95 Leo	11 13 3	24 09	"	"	"	-3.8	01 06	02 26	
15659	11 0738	12 34.4	28 38	"	"	"	-3.8	02 30	03 42	
15660	12 1183	13 46.8	27 35	"	"	"	-3.7	03 46	04 36	

Focus Test

Quite cloudy after sunset Improving after 2000

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	W 0 54	27 20	0	F+6 G5	1-1-1	Patchy haze
	W 1 46	27 15	0	8.54 K0	1-1-1	
	E 0 54	26 42	0	8.54 G5	1-1-1	
	1 33 W	26 15	0	8.52 [illegible] G5	1-2-1	
	1 12 W	23 52	0	8.93 G5	1-2-1	
	1 10 W	23 4	0	8.93 K0	1-2-1	
	0 55 W	27 19	0	8.52 K0	1-2-1	Haze thickening
		O.T.B.			6/4	

3 & + 20 - H. ON M.

Date Tues Mar 1-2 1904 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15661	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.8	18 55	[illegible]	[illegible]
15662	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.7	[illegible]	[illegible]	[illegible]
15663	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.6	[illegible]	[illegible]	[illegible]
15664	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.3	[illegible]	[illegible]	[illegible]
15665	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.6	[illegible]	[illegible]	[illegible]
15666	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.5	[illegible]	[illegible]	[illegible]
15667	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.5	[illegible]	[illegible]	[illegible]
15668	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.0	[illegible]	[illegible]	[illegible]
15669	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.6	[illegible]	[illegible]	[illegible]
15670	9777	11 49 9	26 39				-7.4	[illegible]	[illegible]	[illegible]
15671	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.1	[illegible]	[illegible]	[illegible]
15672	12 11 49	13 42 6	25 09				-7.1	[illegible]	[illegible]	[illegible]
15673	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.4	[illegible]	[illegible]	[illegible]
15674	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-7.1	[illegible]	[illegible]	[illegible]

Focus test

Very cloudy

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	W 1 41	46 25	0	8-6 B(3)n-e	1-1-1	mw 83
	W 0 51	-5 40	0	8.2 B3n-e	1-1-1	mw 104
	W 0 35	15 36	0-1	7.7 B3e	1-1-1	mw 128
	W 0 09	-11 14	1	8.6 B3e	1-1-1	mw 164
	W 0 23	-8 19	0	8.1 B3n-e	1-1-1	mw 174
	W 0 53	26 09	1	8.48 G5	1-1-1	
	W 1 02	25 25	1	8.70 K0	1-1-1	
	W 0 30	27 58	1	8.07 K0	1-1-1	
	146 W	-4 37	1	8.77 G0	1-1-1	Trail[illegible]
	126 W	24 43	1	8.98 K0	1-1-1	
	125 W	25 50	1	8.93 G5	1-1-1	Edge "
	107 W	27 32	1	8.58 G0	1-1-1	
	104 W	26 36	1	8.92 K2	1-1-1	"
	040 W	26 08	1	8.64 G5	1-1-1	" NO DARKA[illegible]
		O. T. B.			6/4	
					4 P.M. E.S.T. H. ON M.	

Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15175	HD 76866	8 53.8	75 [illegible]	1-12"	103a-O	[illegible]	-3.0	2245	2305	

	MC	SC	MTW s	STW m
Mar. 2	+07.6	−07.6	+05.6	+0.2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Osmont + clapping lids 70°+220° until tow legs
23:15		24 48	1	8/79 KO	1-1-1 AG25 Clouded up middle of run 3PA Suspension Tightened

80

Date Thurs. Mar. 3-4, 1949 Mon - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15676	HD 43623	06 12.5	+23 05	1 - 12	Eastman	SET 22.8	-2.3	19 35	20 43 2	1h 55
15677	AG 1044	07 28.2	+23 57	"	"	"	-2.3	20 47	21 57 3	1h 54

FOCUS 12.948

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
					Clouds on horiz & sunset, but not filling in — yet
2043	0ʷ 55	+28 04	0	8·91 KO	1-1-1 AG25 Noticeable Haze
2137	0ʷ 54	+29 49	0+	8·86GO	1-1-1 AG25 Haze much worse! Exposure mostly good
					Not getting anything much — & rapidly filling in!
					AP # Loaded 4 13
					H on M

82

Date Sun. Nov. 17 1901 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15678	AG	2606	39.6	I 12'			-1			
15679	HD	43581	6 11 9	26 28	"	"	-1	1938	1946	1 W
15680		54370	07 03.5	26 40	"	"	"	2019	2045	
15681		63816	07 45.7	25 05	"	"	-1	2054	2134	3
15682		71028	08 20.1	28 45	"	"	-1.0	2137	2213	
15683		76382	08 50.4	24 03	"	"	-1.0	2216	2254	42 W
15684		83820	09 35.7	21 20	"	"	-1.0	2257	2335	2
15685		90822	10 23.1	19 24	"	"	-1.0	2338	0016	3
15686*		98562	11 15.5	24 09	"	"	-1.0	0022	0152	4 16 W
15687		111842	12 47.0	25 18	"	"	-1.1	0156	0251	1
15688		120802	13 46.6	27 07	"	"	-1.0	0308	0437	30 W
15689		138156	15 15.2	27 26	"	"	-1.1	0440	0544	
15690		150253	16 31.1	29 32	"	"	-1.1	0547	0610	

Focus Last

Feb 1967

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	34 W	26 14	0	830 MO 1-1-1	A=25
	31" W	26 27	0+	890 K2 1-1-1	"
	27" W	26 36	1-	894 KO 1-1-1	"
	25" W	24 57	1-	894 G5 1-1-1	"
	30" W	23 39	1	8 [illegible] KO 1-1-1	"
	42" W	23 52	1-	8 [illegible] 1-1-1	"
	37" W	27 07	1+	875 G5 1-1-1	"
	31" W	27 11	1	876 KO 1-1-1	"
	1 16 W	23 54	0-1	8.93 G5 1-1-1	" * NUMBERED 15687 ON PLATE
	0 50 W	23 57	0-1	8.81 K5 1-1-1	"
	1 30 W	27 22	0	882 G5 1-1-1	"
	1 00 W	27 16	0	8.96 K0 1-1-	"
	0 16 W	29 46	0	8.87 G5 1-1-1	"
		O.T.B.		5/4	

H. W. M. 4 P.H. + 13

	MS	DC	NTW	STW
Mar. 7	+07.6	-12.7	+20.0	+0.2

Date Night, Dec. 7-8/42 L.S.T. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15601	H.D. 46139	06 26.7	29 28	I-12½	E-103a-O	Set .008	-3.8	19 41	20 27 1	
15602	" 95578	07 08.4	28 38	"	"	"	-3.8	20 42	21 26 2	
15603	" 70178	08 16.5	23 07	"	"	"	-3.7	21 32	22 02 3	
15604	" 74925	08 41.8	25 21	"	"	"	-3.7	22 07	22 49 4	
15605	" 83632	09 34.8	26 28	"	"	"	-3.7	22 57	23 30 1	
15606	" 90932	10 24.8	27 51	"	"	"	-3.7	23 33	00 11 2	
15607	96234	11 00.7	24 45	"	"	"	-3.7	00 15	00 58 3	
15608	" 101396	11 35.0	26 48	"	"	"	-3.5	00 54	01 46 4	
15609	[illegible]	12 18.6	25 00	"	"	"	-3.4	01 52	03 17 1	

Focus Test

From 12 Jan

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.		REMARKS
					Haze and light clouds at sunset, delayed start.		
	0 42 W	29 26	1-	8.70 Ko	1-1-1	A.G. 25	Light passing clouds
	0 50 W	29 32	1	8.56 Ko	1-1-1	" "	" "
	0 28 W	28 55	1-2	8.65 G5	1-1-1	" "	" "
	0 49 W	29 09	2	8.08 Go	1-1-1	" "	haze both part of Sp.
	0 36 W	26 14	2	7.72 Ko	1-1-1	" "	hazy
	0 25 W	27 35	2	8.95 Ko	1-1-1	" "	light haze
	0 32 W	24 23	2	8.91 G5	1-1-1	" "	"
	0 34 W	25 35	2	8.72 Ko	1-1-1	" "	"
	1 32 W	24 42	2	7.70 Ma	1-1-1	" "	Haze thickening
		O.T.5			6/4		
					H. on N.T. 3 PM + 4		

86

Date Sun Nov 13/14 Eve 6/7 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End	
15700	M 44930	α 14.4	25 39	12"	127A-D	4'	0.0	19 13	19 43	2	
15701	49345	" 43.0	28 39	"	"	"	0.0	19 44	20 16	3	
15702	56761	07 13.3	27 00	"	"	"	0.0	20 21	20 53	4	
15703	67709	08 09.2	27 23	"	"	"	0.0	20 57	21 29	1	
15704	71860	08 37.9	27 36	"	"	"	0.0	21 32	22 12	2	
15705	82331	09 34.2	27 11	"	"	"	0.0	22 15	22 55	4	
15706	86422	10 01.5	27 35	"	"	"	0.0	22 53	23 30	5	
15707	91524	10 36.0	24 17	"	"	"	0.0	23 34	00 04	1	
15708	99957	11 24.0	25 32	"	"	"	-0.1	00 22	00 52	2	
15709	105520	12 00.4	29 04	"	"	"	-0.2	00 57	01 31	3	
15710	114636	13 06.7	26 34	"	"	"	-0.2	01 35	02 11	4	
15711	116329	13 17.9	26 22	"	"	"	-0.2	02 15	02 49	1	
15712	123877	14 03.1	26 18	"	"	"	-0.2	02 53	03 29	2	
15713	130500	14 42.5	25 33	"	"	"	-0.2	03 33	04 07	3	
15714	142209	15 48.2	28 34	"	"	"	-0.3	04 14	04 46	4	
15715	142838	15 52.0	27 20	"	"	"	-0.3	04 51	05 29	1	

Form 12.948

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
9:1	37" W	25 38	1-2	3.02	K5	½-½-½	A=25"
20	34" W	23 35	1+	8.75	K5	½-½-½	"
53	45" W	25 55	1+	8.86	K0	½-½-½	" Light bridge thru 5"86
3	31" W	27 15	1+	8.86	K0	½-½-½	"
11	37" W	27 19	1+	8.92	K2	½-½-½	" Sl. motion - 1A Sol
17	31" W	27 03	1	8.94	K5	½-½-½	"
2	21" W	28 22	1-2	8.96	K0	½-½-½	"
	32" W	26 02	2	8.96	K0	½-1-½	"
	0 36 W	25 36	2	8.93	K2	1-1-1	"
	0 37 W	23 47	2	8.91	K0	1-1-1	"
	0 11 W	26 36	2	8.96	K0	1-1-1	"
	0 33 W	26 06	2	8.91	G5	1-1-1	"
	0 30 W	26 04	2	8.92	K5	1-1-1	"
	0 31 W	25 40	2	8.96	K0	1-1-1	"
	0 05 W	28 44	2	8.92	K0	1-1-1	"
	0 45 W	27 11	2	8.93	K0	1-1-1	" Some bkd clouds

Date Sunday Apr 13-14/40 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15716	HD. 150087	16 33.7	27 35	I-12½	E 103a-O	Set 008	-02	05 33	06 01 2	0 35 4
	Horse Feet				O T B					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	0 35 W	27 28	2	8.8? G5	1-1-1	A.G. 25 mostly thin cloud
					G/4	
						2 1/4 Hale Broad plates mailed in dome
						Hale micrometer:
						HC SC HTW STW
					Mar. 14	+06.3 −21.5 −12.7s +0.1m
					Mar 17/49	Opened up then it clouded over. DF.

90

15-16

Date Tues, Mar 15, 1945 Wm- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15 717	HD 46 344	06 31.0	+28 03	I-[illegible]	[illegible]	008	-3.8	19 14	20 18 3	0h53
15 718	HD 61 645	07 35.2	+26 08	"	"	"	-4.0	20 23	21 27 4	1h04
15 719	HD 71 132	0820.6	+28 23	"	"	"		21 31	(21 45?)	
	Focus	TEST			CTB					

Focus: 12.94 [illegible] rew clouds @ sunset from NW
N wind rather fresh

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0ʰ53	+25 01	0+	8.90 G5 ½-½-½	AG25
	1ʰ04	+26°00′	0+	8.99 K2 ½-½-½	" Some haze & cloud
				8.92 K0 ½-	" Clouds @ ~2145 — * down ~1ᵐ
				4/2 Sat 8	
					3 PL loaded + 3
					Thurs Nov 17-18 Hd overcast, partly clear
					21-22h Then cloudy

92

Date Sun Eve. 18/9/1949 L/W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15720	HD 78837	09 05.5	25 49	I-12½	E103a-O	Set .068	-5.2	21 38	22 52 2	1 11 W
15721	" " 89533	10 07.5	27 55	"	"	"	-5.2	22 56	00 03 3	1 17 W
15722	" " 101856	11 38.3	28 07	"	"	"	-5.2	00 04	01 08 4	0 58 W
15723	" " 109976	12 26.2	28 17	"	"	"	-5.2	01 13	02 15 1	0 59 W
15724	" " 121151	13 48.5	28 20	"	"	"	-5.2	02 20	03 36 2	1 14 W
15725	" " 134680	15 06.1	27 18	"	"	"	-5.2	03 41	05 03 3	1 32 W
15726	" " 150567	16 34.8	24 06	"	"	"	-5.2	05 07	05 51 4	0 41 W
		Focus Test							1	

Temp @ END 406 F

June 12, 1948

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	1 11 W	25 38	0	8.89 Ko ½-½-½	A.G. 25	Seeing very poor
	1 17 W	27 39	0	8.70 G5 ½-½-½	" "	
	0 55 W	27 50	0	8.72 Ko ½-½-½	" "	
	1 15 W	27 59	0	8.70 G5 ½-1-1	" "	
	1 14 W	28 05	0	8.63 Ko 1-1-1	" "	
	1 34 W	27 35	0	8.93 Ko 1-1-1	"	
	0 41 W	29 00	0	8.75 K2 1-1-1	"	some clouds + fog
		C. T. E.		6/4		
					4 P.M. + 12 H.M.	

Date Saturday, March 19-20/49 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15727	H.D. 76864	08 53.8	29 24	I 12½	E-103a-O	set .008	-5.1	21 21	22 21 1	55 W
15728	" 86680	09 55.0	28 39	"	"	"	-5.1	22 25	23 11 2	45 W
15729	" 91842	10 31.2	28 18	"	"	"	-5.1	23 15	00 25 3	23 W
15730	" 104589	11 57.6	25 54	"	"	"	-5.2	00 29	01 29 4	5 W
15731	" 113242	12 57.3	29 32	"	"	"	-5.2	01 34	02 24 1	56 W
15732	" 123822	14 04.8	25 54	"	"	"	-5.2	02 29	03 17 2	43 W
15733	" 143271	15 54.4	27 09	"	"	"	-52	03 23	04 11 3	35 E
15734	" 143272	15 54.4	26 49	"	"	"	-5.2	04 15	05 03 4	35 W
15735	" 150431	16 36.9	25 44	"	"	"	-52	05 07	05 49 1	44 W
	Focus Test					O.T.B.				

From 12.398

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
[illegible]	0 56 W	29 12	0	8.56 K_2	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	A G. 25 Lens. jam!
[illegible]	0 45 W	28 22	0	8.26 G_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	" " Lens. [illegible]
[illegible]	1 23 W	28 02	0	8.98 K_0	$\frac{1}{2}$ $\frac{1}{2}$-$\frac{1}{2}$	" " " "
01 [illegible]	1 01 W	25 37	0-1	8.84 K_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	" "
02 [illegible]	0 56 W	29 15	0-1	8.86 G_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	" "
03 [illegible]	0 43 W	25 40	0-1	8.91 K_2	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	" "
04 [illegible]	0 13 E	27 00	0-1	8.98 K_2	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	" "
05 [illegible]	0 39 W	26 40	0-1	8.96 K_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	" "
[illegible]	0 44 W	25 37	0-1	8.82 K_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	" "
					4/2	3 Plates taken.
						16 plates in date H. M.

	MC	SC	MTW	STW
Mar. 21	+04.2	-29.3	+16.0	+0.6

Tor., Mar. 22/3 Rain & drizzle Wm.

Date Thursday Mar 24-25, 1949 ~~H~~ - W Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15736	HD 9,348	10 27 8	25 38	I-12	E103a0	008	+2.0	23 02	00 04 2	.125
15737	HD 100179	11 26.6	24 52	"	"	"	+2.0	00 07	*gone 0 0 35 3	058 W.
		Focus Test								

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	W 1 25	28 02	0	8.77 G5	½-½-½ Still pretty hazy.
	0 58 W.	24 35	0	8.15 K2	½-1-1 Clouds of iron are some.
		O. T. B.			6/4. haze thickening
					1 P.H. + 16 H. on M.
					Mostly clear shortly after sunset but air temp much higher than midnight; final opening of shutter section proceeding very slowly. The improvement of conditions as night wore on! opened at 3.0 with sky intermittently cloudy.

98

Date Sunday Nov 27/98 Ra Julian Day
1899

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15738	HD 79318	09 08.3	25 49	7-12"	103a-O	.008 Cur	+10.1	2116	2158	4
15739	87809	10 02.4	27 16	"	"	"	+10.3	2205	2221	1
	Focus Test	A/3	STB	+ 7.5		3 Pt-Board	Horn M			

Form 12-941 99
Page 1 cont.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
02	5C" W	25 31	2-1	8.82 KO	½-½-½	Broken clouds clearing - start 2100 Wind.
22		27 24	0	8.82 KO	½	Start 1 exposure doubtfully clear + gone at 2221. Sorting steadily.

Date Monday Nov 28/29 - 1949 L - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15740	A.G. 2606	05 35.6	26 13	I-12½	E-103a-O	set .008	+8.9	19 23	20 43 2	3 11 W
15741	H.D. 76976	08 54.4	29 03	"	"	"	+8.9	21 19	22 11 3	1 21 W
15742	" 89630	10 15.5	27 25	"	"	"	+8.9	22 16	22 58 4	0 41 W
15743	" 102161	11 40.9	25 41	"	"	"	+8.9	23 03	23 43 1	0 07 W
15744	" 107132	12 14.0	25 24	"	"	"	+8.9	23 47	00 31 2	0 11 W
15745	" 108976	12 26.2	28 17	"	"	"	+9.0	00 35	01 15 3	0 54 W
15746	" 115762	13 14.2	25 08	"	"	"	+9.0	01 19	02 11 4	1 03 W
15747	" 128095	14 29.9	28 55	"	"	"	+9.0	02 15	02 55 1	1 23 W
15748	" 137688	15 22.3	28 28	"	"	"	+9.0	02 59	03 25 2	1 11 W
		Focus Test								3

Hour 12.936

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
	3 11 W	26 14	0-1	9.8? No	½-½-½	A.G. 25 Cirrus N end of opp. Sun
	1 21 W	28 51	0	8.81 K5	½-½-½	" " clearing again.
	0 47 W	27 10	0-1	8.75 G0	½-½-½	" "
	0 07 W	25 23	0-1	8.75 G5	½-½-½	" "
	0 22 W	25 07	0-1	8.80 G0	½-½-1	" "
	0 54 W	23 00	0-1	8.70 G5	1-1-1	" "
	1 03 W	24 52	0-1	8.57 G5	1-1-1	" "
	0 31 W	26 41	0-1	8.72 G5	1-1-1	" "
	0 10 W	26 16	0-1	8.54 K2	1-1	Overcast suddenly around 0525
		O. T. B.			6/10	
						2 P.M. + + H.M.S.
						Intermittent cloudiness closed 0515
						Tues Mar 29/30 – O'Cast; drizzle. Wm

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Date Friday, April 12, 1929 Wm - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						SCT				
15 749	HD 33 585	05 06.2	+28°21'	I-12	[illegible] O	00=	+5.0	19 51	20 21	3 E 35
15 750	HD 75 663	08 46.2	+29 14	"	"	"	+5.0	20 25	21 19	2 E 33
	BD+27°1811	09 #21	+27 35							
15 751	~~HD 84 577~~	~~09 41.1~~	~~+29 30~~	"	"	"	+5.0	21 23	22 29	1 W 08
15 752	HD 91 855	10 31.3	+26 41	"	"	"	+4.8	22 34	23 33	2 W 27
15 753	HD 106 947	12 12.8	+25 35	"	"	"	+5.0	23 44	00 41	1 W 52
15 754	115 103	13 09.9	29 55	"	"	"	+5.0	00 47	02 01	1 W
15 755	129 357	14 37.0	24 32	"	"	"	4.9	02 05	02 55	1 W
15 756	139 550	15 33.7	25 57	"	"	"	5.0	02 59	03 55	2 W
15 757	147 910	16 19.9	25 37	"	"	"	4.9	03 58	04 34	2 W
15 758	156 008	17 11.0	26 56	"	"	"	5.0	04 38	05 24	1 W

Texas Tech

Focus 12.93 B

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	3ᵂ35	+26 23	O	8.11 G5	½-½-½	AG25
	0ᵂ53	+29 02	O	8.75 K2	½-½-½	AG25
	1ᵂ08	+27 24	O	8.98 ~~G0~~ K0	½-½-½	AG25
	1ᵂ27	+26 26	O	8.92 K0	½-½-½	AG25
	0 52 W	25 19	O	8.79 G5	½-1-1	AG25
	1 13 W	29 38	O	8.79 G0	1-1-1	" "
	0 39 W	29 15	O	8.79 G0	1-1-1	" "
	0 44 W	25 16	O	5.54 G5	1-1-1	
	0 37 W	25 30	O	5.28 K0	1-1-1	
	0 27 W	26 53	O	8.88 G5	1-1-1	
		O T B.			½	1 P.M. to A.M.
						11 on M.

Date Sat Apr 2-3, 1949 Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
15759	HD 84440	09 40.2	27 32	I-12	E 103a0	008	+6.0	21 41	22 31 1	W15
15760	HD 92456	10 35.4	26 13	"	"	"	+6.0	22 36	23 20 2	W10
15761	HD 102404	11 42.1	24 39	"	"	"	+6 0	23 23	3	
	Focus Set									

about 35 Visitors Partly cloudy.
Showed 4 with 74" x 5"
" " 4"

Ending Time E.S.T.					
22 31	W 1 15 ~~22 34~~	27 17	0	8.42 K0	½ · ½ · ½
23 22	W 1 09	25 58	0	8.33 K0	½ · ½ · ½
			0	8.75 G5	½ - 2 4/2

about 10 mins of clear sky thru clouds

1 P.U. +4

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Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
15762	PD 66724	09 [illegible]	27 [illegible]	Lit	[illegible]	[illegible]	-7.0	[illegible]	[illegible]	[illegible]
15763	PD [illegible]	[illegible]	29 03	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
15764	PD 64163	[illegible]	25 16	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
15765	HD 27915	10 14.1	29 51	"	"	"	[illegible]	2153	[illegible]	[illegible]
15766	HD 97477	11 01.9	26 37	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
15767	PD 13614	11 58.8	16 09	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
15768	HD 110788	12 [illegible]	29 32	"	"	"	6.8	0011	0125	2
15769	124 cyg	14 05.9	28 05	"	"	"	6.8	0128	0226	3
15770	135 H3	15 08.8	28 19	"	"	"	6.8	0231	0329	4
15771	143658	15 36.8	24 44	"	"	"	6.8	0233	0331	4
15772	15 dyl	17 [illegible]	26 38	"	"	"	6.8	0435	0521	2

Focus Test

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	47° W	24 52	0+	[illegible]	½-½-½	As 25 [illegible]
	44° W	28 50	1	[illegible]	½-½-½	"
	42° W	25 [illegible]	1+	[illegible]	½-½-½	"
	49° W	27 30	1	[illegible]	½-½-½	" Some Turbulence
	45° W	26 43	1-0	[illegible]	½-½-½	"
	46° W	25 [illegible]	0	[illegible]	½-½-½	"
01 23	1 15 W	28 15	0	8 75	1-1-1	"
01 20	0 50 W	27 50	0	8 79	1-1-1	
03 29	0 50 W	25 [illegible]	0	8.42	1-1-1	BRIGHTER OF PAIR
	1 05 W	24 35	0	8.91	1-1-1	
03 21	0 49 W	26 35	0	8.63	1-1-1	
		O. T. B.				

[illegible]

[illegible]

[illegible]

	MC	SC	MTW	STW
Apr. 4	+03.0	-46.0	+12.0	+0.0

Date Apr. April 4-5/10 L-W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15773	H.D. 75646	08 46.1	26 05	I-12½	E-103a0	SCT .008	+9.5	19 57	20 29 3	1.1E W
15774	A.G. 4714	08 46.1	26 06	"	"	"	+9.5	20 31	21 23 4	.9S W
15775	H.D. 91950	10 31.9	25 36	"	"	"	+9.4	21 57	22 37 1	0.3 W
15776	" 99394	11 22.4	26 59	"	"	"	+9.3	22 41	23 17 2	1.2 W
15777	" 102404	11 42.1	24 59	"	"	"	+9.3	23 20	23 50 3	1.4 W
15778	" 108675	12 24.0	29 26	"	"	"	+9.2	23 54	00 28 4	1.3 W
15779	" 115256	13 10.4	29 17	"	"	"	9.4	00 32	01 00 1	1.1 W
15780	" 117023	13 22.5	29 24	"	"	"	9.5	01 02	01 35 2	1.1 W
15781	" 125346	14 13.6	27 15	"	"	"	9.2	01 38	02 05 3	1.2 W
15782	" 130245	14 [illegible] 5	27 36	"	"	"	9.2	02 08	02 44 4	1.3 W
15783	" 134[illegible]	15 34.3	26 04	"	"	"	9.1	02 47	03 53 1	1.0 W
15784	" 144413	16 24.0	25 04	"	"	"	9.2	03 57	04 29 2	1.1 W
15785	" 154245	17 03.5	25 16	"	"	"	9.2	04 32	04 30 3	1.2 W
15786	" 161142	17 31.6	26 26	"	"	"	9.2	04 33	05 21 4	1.1 W

Record Lost

In "Rea" is grey shown Saturn with 74" and mirror with 6".

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
	0 15 W	25 54	0-1	8.51 Ko	½-½-½	AG.25 Set on H.D. 35661 and A.G. 2506
	1 09 W	25 55	1	9.1? Go	½-½-½	" " but slit was flooded with moon.
	0 37 W	25 20	1	8.84 G5	½-½-½	" "
	0 27 W	26 44	1-2	8.95 K2	½-½-½	" "
	0 40 W	24 42	1-2	8.70 Ko	½-½-½	" "
	0 37 W	29 08	1-2	8.69 Go	½-½-1	" "
	0 22 W	28 59	2	8.77 Ko	1-1-1	" "
	0 43 W	29 07	1-2	8.77 Ko	1-1-1	dif. slit not as light as previously
	0 25 W	27 [illegible]	2	8.75 G5	1-1-1	
	0 36 W	27 44	2	8.55 K2	1-1-1	
	0 32 W	25 56	1-2	8.43 G5	1-1-1	
	0 34 W	26 [illegible]	1-2	8.77 Go	1-1-1	
	0 21 W	25 10	2-3	8.14 Ko	1-1-1	
	0 17 W	26 34	2-3	8.48 K2	1-1-1	
		0 F.S.			6/4	
					4 P.H. + 0	H.S. [illegible]

Date Tue April 5-6, 1904 Hd-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15787	HD 8303	10 03.7	25 02	I-12	E103a-O	003	+6.0	21 42	22 32 1	W 16
15788	HD 97476	" 07.9	27 43	"	"	"	+6.0	22 35	23 15 2	W 55
15789	HD 105020	12 00.4	29 04	"	"	"	+6.0	23 18	00 10 3	1 W
15790	" 115613	13 13.2	27 58	"	"	"	+6.0	00 15	01 05 4	1 40 W
15791	A.G. 6705	14 00.3	26 19	"	"	"	+6.0	01 14	02 30 1	2 W
15792	H.D. 142418	15 49.4	20 46	"	"	"	+5.9	02 31	03 17 2	1 17 W
15793	" 143313	15 64.6	25 02	"	"	"	+5.9	03 20	04 10 3	1 55 W
15794	" 160952	17 37.7	29 39	"	"	"	+5.8	04 15	05 07 4	3 W
	From Yest					O.T.B.				

Cloudy earlier.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 21	W 1 16	20 47	0	8.72 G5	½-½-½ Clouds again
23 [illegible]	W 5 5	27 27	0	8.63 K2	½-½-½ (prints, numbered 11573!)
00 0	0 58 W	28 45	0	8.91 K0	½-½-½ AG 25
0 [illegible]	0 40 W	27 43	0	8.64 G5	½-½-½ AG 25 Light clouds from 00.50 on
01 [illegible]	1 19 W	26 05	0	8.70? K0	½-½-½ " " Dy mag 9.5?
[illegible]	0 17 W	29 27	0·1	8.82 K0	½-½-½ " "
[illegible]	1 05 W	25 43	0	8.91 K5	½-½-½ " " Wind easing, image unsteady
0 [illegible]	0 19 W	29 36	0	8.91 K0	½-½-½ " "
					4/2

4 P.H. tested ±4.

Heat in mirror.

Date Sat April 9/10, 1949 - Wm - W

										Hour Angle End
15795	HD 104590	11h 57m 6	+25 00	I-1-L	[1030·0	008	+4·2	22 59	23 59	0h 34
15796	HD 112209	12h 50·6	+26 16	"	"	"	+4·5	00 04	00 56	0 55 W
15797	120895	13 47.2	25 11	"	"	"	4·5	00 59	02 11	1 16 W
15798	136231	15 14.4	26 09	"	"	"	4·5	02 15	03 31	1 16 W
15799	149503	16 32.0	29 56	"	"	"	4.2	03 34	04 17	0 43
15800	160505	17 35.2	26 49				4.3	04 17	05 13	0 56

Focus Test

N ⊙W m Showed about 175 visions h w/o 79
C w/o 5'

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0ᵐ54	+2 9 45	0-1	873 KO	½-½-½	AG25
0 58 W	26 01	0-1	878 GO	½-1-1	AG25
1 16 W	24 55	0-1	8.56 Ko	1-1-1	
1 10 W	25 52	0	8.96 Go	1-1-1	
1 03 W	29 40	0	8.78 G5	1-1-1	
0 21 W	26 46	0	8.23 Go	1-1-1	
	C. T. B			⅚	

2 P. H. + 12

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Date Sun Apr 10-11, 1949 - Hd. - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15801	HD 72559	08 28.5	25 47	I-12	E1030.0	008	+9.0	19 54	20 44 3	+1 10
15802	HD 83341	09 32.6	25 48	"	"	"	+9.0	20 47	21 47 4	+1 09
15803	HD 87631	10 15.5	27 13	"	"	"	+9.0	21 50	22 40 1	+1 20
15804	HD 89630	10 15.5	27 24	"	"	"	+8.9	22 42	23 54 2	34 W
15805	" 114037	13 02.7	27 03	"	"	"	+8.7	00 02	00 34 3	29 W
15806	" 131509	14 18.9	28 55	"	"	"	+8.7	01 28	02 06 4	14 W
	Focus Test				O.T.13.					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20 44	W 1 10	28 37	0-1	5.53 G5	½-½-½	
21 47	W 1 09	25 36	0	8.91 G5	½ ½ ½	
22 40	W 1 20	26 59	1	8.65 G0	½-½ ½	Some clouds
23 44	2 34 W	27 10	1	8.75 G0	½-½ ½	" "
00 34	0 28 W	26 48	1	8.36 K0	½-½ ½	haze, clouds.
02 06	0 14 W	27 12	1	8.79 G5	½-½-½	more haze, clouds,
				4/2		Cloud up at 3:00, thick.
						4 P.M. local +4
						H. M.

	MC	SC	MTW	STW
Apr. 11	+01.0	−51.1	−00.8	−0.3

Date Spec April 11-12/49 L - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15807	HD 70030	08 14.7	25 39	I-12½	E103a-O	Set .005	+12.6	19 50	20 30 1	1:44
15808	" 78194	09 01.8	28 23	"	"	"	+12.6	20 34	21 24 2	1:2 W
15809	" 90841	10 24.2	29 02	"	"	"	+12.6	21 28	22 08 3	0 43 W
15810	" 95978	10 59.2	29 44	"	"	"	+12.6	22 12	22 44 4	0 45 W
15811	" 104076	11 54.1	25 12	"	"	"	+12.5	22 48	23 22 1	0 28 W
15812	" 107468	12 16.1	26 17	"	"	"	+12.5	23 26	00 12 2	0 36 W
15813	" 114172	13 03.8	29 55	"	"	"	+12.5	00 14	01 04 3	1 01 W
15814	" 126527	14 19.7	26 11	"	"	"	+12.6	01 05	02 06 4	0 47 W
15815	" 136231	15 14.4	26 09	"	"	"	+12.5	02 04	03 19 1	1 36 W
15816	" 133224	16 33.0	29 45	"	"	"	+12.5	03 33	04 33 2	0 42 W
15817	" 161265	17 39.5	27 00	"	"	"	+12.5	04 37	05 11 3	1 32 W

Focus Test

June 12, 1937

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp		REMARKS
	1 14 W	25 30	0	9.56 K2	½-½-½	AG. 25	light haze
	1 21 W	23 13	0-1	8.91 Ko	½ ½ ½	" "	" "
	0 43 W	23 45	1	8 90 K2	½-½-½	" "	" "
	0 45 W	29 26	1-2	8.84 Ko	½ ½ ½	" "	" "
	0 28 W	24 36	1	8.68 Go	½-½-½	" "	" "
	0 56 W	26 00	1	8.72 Ko	½-½-½	" "	" "
	1 01 W	29 38	1	8.77 Go VIS M.	1-1-1	" "	*YELLOWISH-RED
	0 47 W	25 06	1	7-5 M8	1-1-1	"	CHECK MAGS. OF OTHER *s IN FIELD
	1 36 W	25 57	1-2	8.96 Go	1-1-1		
	0 42 W	27 07	1-2	8.70 Go	1-1-1		
	0 33 W	27 52	1-2	8.27 K2	1-1-1		
		J. T B.			*½		

½ P.H. + 5

H. ON M2

Date Tues. April 13 1943 P.M. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
15813	HD 76210	08 42.4	27 18	42"	103a-O	.08	+15	1941	2006	4
15817	78167	08 56.0	27 17	"	"	"	15	2011	2101	1
15820	88416	10 [illegible]	27 24	"	"	"	14.9	2105	2205	2
15824	97658	11 09.2	26 14	"	"	"	14.2	2209	2237	3
15826	104398	11 55.2	24 47	"	"	"	14.0	2241	2327	4
15829	AG 6049	12 47.9	25 41	"	"	"	13.8	2331	0013	5
15831	HD 119944	13 41.3	27 43	"	"	"	13.9	00 33	01.39	.02 W.

Focus Test

Form 12937 119

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
2[illegible]	[illegible]" W	27 [illegible]	0-1-2	[illegible]	K5	½-½-½	AG 25
[illegible]	53" W	29 [illegible]	1-0	[illegible]	KO	½-½-½	"
[illegible]	1h 01" W	27 32	0	8.9[illegible]	KO	½-½-½	"
[illegible]	32" W	2[illegible] 10	0	[illegible]	KO	½-½-½	"
[illegible]	33" W	29 30	0-1	8.92	KO	½-½-½	"
0[illegible]	34" W	25 26	2-1	8.79	K2	½-½-½	
0139	1 02 W	27 28	1	8.76	K0	1-1-1	HAZE THICKENING CONSIDERABLY
		O.T.B.				6/4	

2 P.H + 24

H. ON M.

Date Tue April 14/18 Eve. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
	H									
15825	HD 31505	04 20.9	26 49	24"	IIIa-D	Cur	12.8	2008	2058	3 W
15826	90132	10 24.8	27 51	"	"	"	14.2	2102	2152	9 37 W
15827	96234	11 00.7	29 45	"	"	"	14.8	2155	2245	1 55 W
15828	105964	12 06.6	26 17	"	"	"	14.8	2248	2330	7 W
		Tow	OTB	4/2		B				

Exp. 12937 121

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						Cloud - low cloudy exposure
	49°W	27 36	O	8.71	G5	½ - ½ - ½ AGZ5
	39°W	27 37	O	8.95	K0	½ - ½ - ½ "
	56"W	29 29	O	8.91	G5	½ - ½ - ½ "
	35°W	26 01	O	8.9	G0	½ ½ - ½ " Cloudy [illegible]
						2 PM + 20 Lost

Date Eve April 16-17 1949 HA - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15828	HD 99417	11 24.8	25 27	I-2	E-3400	008	+1.7	22 20	23 10 1	N 15
15829	HD 109123	12 32.7	29 "	"	"	"	+1.7	23 15	00 05 3	0 54
15831	AG 6529	13 30.5	25 19	"	"	"	+1.7	00 10	01 14 4	1 34
15832	HD 129185	14 30.4	28 49	"	"	"	+1.7	01 18	01 56 1	0 46 W
15833	" 142929	15 52.2	25 28	"	"	"	+1.7	02 01	02 51 2	1 34
15834	" 147527	16 17.4	29 13	"	"	"	+1.7	02 56	03 56 3	1 33
15835	" 153950	17 09.0	26 18	"	"	"	+1.6	04 00	04 52 4	1 03 W
	Focus Test					O.T. B				

p. 123

Plate field determination
Tracking ½
OK

About 15 minutes showed 3 mil 7x"
Focus 12.937 – not changed a/c
much lower temp.
Found Tog. to needed for spec. tracking ex.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 10	W 1 07	25 08	0	8.72 K0	½ – ½ – ½
00 03	0 52 W	28 54	0	8.93 G5	½ – ½ – ½ set 8 AG 25
01 14	1 03 W	26 03	0-1	9.2 ? G5	½ – ½ – ½ " "
01 56	0 46 W	28 36	0-1	8.6 ? G0	½ – ½ – ½ " "
02 41	0 20 W	25 18	0-1	9.0 ? G5	½ – ½ – ½ " "
03 26	0 59 W	29 05	0-1	8.98 G0	½ – ½ – ½ " "
04 12	1 03 W	26 13	0-1	8.95 G5	½ – ½ – ½ " "
					4/2

2 PHo. loaded + 12, 14 on Mt.

Date Sun Afternoon 17 18, 1949 Hd - W. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15836	HD91366	10 27.8	25 38	I-12	2103a0	008	+6.7	21 31	22 11 1	½ 06
15837	HD96393	11 01.6	26 17	"	"	"	+6.6	22 13	23 43 2	W 2.5
15838	HD112001	12 48.2	27 20	"	"	"	6.7	23 48	01 40 3 * gone	.6 W
		Focus Test								

cloudy after sunset.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
22.	W 1 06	25 25	0	8.40 K0	½ - ½ - ½	
23 43 23 *9me 01 40	W 2 05	26 00	0	8.79 G5	½ - ½ - ½	
	1 16 W	27 04	0	7.91 G0	½ - 1 - 1	Haze thickening
		O. T. B.			6/4 set. 1½	3 P. H. + 8?

Date Tues. April 17/20 Exp. - L Julian Day
1949

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15839	HD 109372	11 51.2	24 47	1.12"	103a-0	.018	+ 5.8	2220	2300	4
15840	" 109463	12 29.9	24 47	"	"	"	5.8	2302	[illegible]	1
15841	" 115762	13 14.2	2508	"	"	"	5.8	2346	0026	2
15842	" 125320	14 13.6	27 15	"	"	"	5.8	0029	0103	3/4
15843	" 130500	14 43.5	25 53	"	"	"	5.8	0106	0146	2
15844	" 140385	15 39.2	29 57	"	"	"	+5.8	0150	0230	1
15845	" 147487	16 17.2	27 36	"	"	"	+5.8	0234	0314	2
15846	AG. 7774	16 38.0	25 37	"	"	"	+5.8	0320	0420	3
15847	HD 164042	17 54.2	27 23	"	"	"	+5.8	0423	0447	4
	Focus Test					O.T.B				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	36ᵐ W	24 30	1-0	8.92 K0	½-½-½ Clouds clearing 2130 A 25
	44ᵐ W	24 30	0-1	8.84 K2	½-½-½ "
	44ᵐ W	24 53	0-1	8.87 G5	½-½-½ "
	21ᵐ W	27 02	1	8.75 G5	½-½-½ Trouble with 19" drive clock. "
	0 35 W	25 40	1	8.9 K0	½-½-½ Before hour while making adj. L "
	0 24 W	29 47	1	8.91 G5	½-½-½ "
	0 30 W	27 29	1	8.96 G0	½-½-½ "
	1 15 W	25 30	1	9.4? G0	½-½-½ "
	0 26 W	27 22	1	8.39 K2	½-½-½ "
					4/2 2PH; [illegible], pilot needed. H on M

	MC	SC	MTW	STW
Apr. 20	−01ˢ.2	−1 02.3	+20ˢ.8	−0ˢ.1

Date Wed Apr 20-21, 1949 HH Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle Mid
15848	HD89361	10 13.6	24 52	I-12	Σ10300	008	+11.9	20 41	21 21 1	+1.042
15849	HD96234	11 00.7	24 45	"	"	"	+11.9	21 43	22 31 2	+1.06
15850	HD105020	12 00.4	29 04	"	"	"	+11.7	22 34	23 24 3	W 59
15851	HD113242	12 57.3	29 32	"	"	"		23 29	4	

Forms 12.930 (decreased slightly) 129

Clouds at summit.

Ending Time E.S.T.	Hour Angle Hadl	Declination	Setting	Rtg. Mag.		REMARKS
21 21	W 0 42	24 36	0-1	8.47 K_2	1-1-1	
22 3	W 1 06	24 30	0	8.91 G_5	1-1-1	Some haze.
23 24	W 59	28 46	0-1	891 K_0	1-1-1	Strong S-W haze - guiding difficult
				8.86 G_0	1-	Thickening. Gave up at 0010.

Thursday April 21-22/49 W-L

15851	HD 83935	09 36.6	26 04	I · 12½E 103a0	·008	+16.8	19 07 56	20 08 34	1	0.86 W
15852	89629	10 15.5	28 15	" " "		+16.6	20 21 36	21 22 12	2	0.86 W
15853	94833	10 51.8	25 49	" " "		+16.6	21 22 15	22 23 07	3	0.55 W
15854	102494	11 42.7	27 53	" " "		+16.5	22 10	22 38	4	0.35 W
15855	107611	12 17.0	27 51	" " "		+16.6	22 41	23 23	1	0.46 W
15856	114636	13 06.7	26 54	" " "		+16.5	23 26	00 06	2	0.39 W
15857	120802	13 46.6	27 37	" " "		+16.3	00 12	00 42	3	0.55 W
15858	126178	14 22.5	29 02	" " "		+16.3	00 46	01 16	4	0.34 W
15859	127386	14 26.0	25 33	" " "		+16.3	01 20	01 54	1	0.5 W
15860	138156	15 25.2	27 26	" " "		+16.3	02 00	02 34	2	0.45 W
15861	145394	16 05.5	27 14	" " "		+16.3	02 38	03 12	3	0.47 W
15862	150799	16 35.2	25 38	" " "		+16.3	03 16	04 08	4	.W
15863	163970	17 53.6	27 51	" " "		+16.3	04 12	04 46	1	0.33 W
	Sun Test				O.T.B.					

20 08 34	0 36 W	25 49	1	8.60?	K0	1-1-1	AG 25
21 [illegible]	0 36 W	27 59	1	8.49	K0	1-1-1	"
22 [illegible]	0 55 W	25 33	1	8.84	G0	1-1-1	"
22 38	0 35 W	27 37	1-2	8.60	G5	1-1-1	"
23 33	0 46 W	27 35	1-2	8.64	G0	1-1-1	"
[illegible]	0 39 W	26 39	3	8.96	K0	1-½	"
[illegible]	0 35 W	27 23	2	8.82	G5	½-½-½	"
[illegible]	0 34 W	28 48	2	8.82	K0	½-½-½	"
[illegible]	1 08 W	25 19	2	9.0?	G5	½-½-½	"
[illegible]	0 49 W	27 17	2	8.96	K0	½-½-½	"
[illegible]	0 47 W	27 07	2-1	8.33	K2	½-½-½	"
[illegible]	1 11 W	25 32	1-2	9.4?	G0	½-½-½	"
[illegible]	0 33 W	27 51	2	9.0?	G5	½-½-½	" Bet a few to red. comparis

4/2

4 PH. [illegible] +16 H. o. M.

Date April 22/23 1914 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
15864	HD 95369	11 55.5	24 37	1 12"	103a-O		11.5	2110	2150	2
15865	101376	11 35.0	21 42	"	"	"	11.9	2155	2235	3
	107725	12 17.6	27 09	"	"	"	12.0	2239	2321	4
15866	113242	12 57.3	27 32	"	"	"	12.0	2329	00 12	4
15867	" 124019	14 05.9	28 05	"	"	"	+12.0	00 21	0 05	2
15868	" 132304	14 53.3	25 05	"	"	"	+12.0	01 13	01 41	1
15868-A F	" 141167	15 42.6	25 23	"	"	"	+12.0	01 45		3
	Focus Set				O. T. B.					

Trouble with setting hand-[illegible] at first from 12:30
declination button sticking

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	[illegible] N	24 20	0-1	[illegible]	G5	½-½-½	AM's Clouds forming, 2005
2005	44 N	26 37	0+	[illegible]	KU	½-½-1	"
2[illegible]	4[illegible] W	2[illegible] 54	0+	[illegible]	K2	½-½-½	" Forgot to pull slide.
[illegible]	0 59 W	29 16	0+	[illegible]	[illegible]	½-½-½	" Hazing
[illegible]	0 44 W	27 52	0-1	8.79	G5	½-½-½	"
[illegible]	0 32 W	24 53	0-1	8.44	K2	½-½-½	"
		25 15	0-1	8.84	G5	½-½	" About 15 mins of clear sky then clouding over. Sky remaining thick.
						4/c	Handwatch now O.K.
							2 PHs Loaded + 12 14 on M.

Sat. April 23/49 '49. N & Wm waved 7.4" for ~35 visitors. CLOUDY

1949
Sun April 24/25 La -L

15869	BD+27°1811	09 42.1	+27 35		12"	103cD		7.2		
15870		11 15.2	24		"	"	"	7.2	21 11	21 01
15871		12	21					7.2	22 05	22 55 2
15872	111642	12 47.0	24					7.1	22 58	23 34
15873	111645	13 30.5	25	48				7.1	23 38	00 38 4
15874	A.G. 6888	14 29.9	24	51	"	"	"	+7.1	00 44	01 18 1
15875	H.D. 134282	15 03.9	27	05	"	"	"	+7.0	01 23	01 53 2
15876	" 141690	15 49.3	25	46	"	"	"	+7.0	01 56	02 32 3
15877	" 147665	16 18.1	24	59	"	"	"	+7.0	02 36	03 10 4
15878	AG 8066	17 08.3	29	39	"	"	"	+7.0	03 24	04 05 1
15879	HD 163331	17 50.5	27	37	"	"	"	+7.0	04 11	04 37 2
	Finis Finis					O.T.B.				

Watch stopped at 03:10, noted it at 04:20 marked on and started it, may be correct,

1° 11° W	27 14	C-	7.98	Ko	½-½-½	AC 25
31° W	23 54	C	8.93	G5	½-½-½	"
46° W	25 47	C	8.91	K0	½-½-½	"
39° W	25 57	C-1	8.51	K5	½-½-½	"
0 50 W	25 37	C-1	6.7*	G0	½-½-½	" 9.2? Ptg.
0 40 W	24 37	C-1	8.68	G0	½-½-½	"
0 41 W	26 55	1	8.63	K0	½-½-½	"
0 39 W	25 37	1	8.82	G5	½-½-½	"
0 54 W	24 51	1-2	9.2?	G5	½-½-½	"
0 53 W	29 34	2	9.4?	K0	½-½-½	"
0 35 W	27 36	2-1	8.64	K0	½-½-½	"

4½

3 PHs Loaded, plotted, noted H on M

	BC	M BC	MTW s	MTW m
Apr. 25	-1 09.7	-01.9	+01.5	-0.0

Date June April 26-27/49 Ba-L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
	HD 116329	13 17.9	26 22	I 12'	103.0	.008	12°	23 42	23 58 3	
15880	122767	13 58.7	35 05	"	"	"	12°	00 02	00 12 3	
15881	HD. 142243	15 48.4	29 13	"	"	"	+11.8	01 49	02 15 4	26 W
15882	" 145830	16 08.3	26 42	"	"	"	+11.8	02 18	02 48 1	40 W
15883	" 151625	16 43.5	28 34	"	"	"	+11.8	02 52	03 20 2	37 W
15884	AG. 8084	17 10.2	29 39	"	"	"	+11.8	03 24	03 56 3	49 W
15885	HD 166093	18 04.0	29 48	"	"	"	+11.8	04 02	04 24 4	18 W
	June Jag				O.T.B.					

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
					Clouds okay gradually clearing by 2300
	16 [illegible]	0	8.11 G5	½	[illegible] wrong X.
1 13 W	24 50	0	8.78 K0	½-½-½	set 7.5
0 26 W	29 03	1-2	8.76 K2	½-½-½	AG 25
0 40 W	26 33	1-2	8.70 K2	½-½-½	" "
0 37 W	28 29	2	8.85? G5	½-½-½	" "
0 48 W	29 37	2	9.02? G0	½-½-½	" "
0 21 W	29 48	2	8.40 K2	½-½-½	" "
				4/2	1PH. Ended + 8 H. on M.

Date Wed Sept 27-28, 1949 Hd-Wm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
15886	HD 83617	09 34.7	25 29	I-12	103aO	008	+13.0	19 59	20 53	1
15887	HD 93242	10 40.9	26 05	"	"	"	+13.0	20 57	22 03	2
15888	HD 93215	10 40.7	26 18	"	"	"	+12.9	22 05	22 55	3
15889	HD 113094	12 56.2	24 51	"	"	"	+13.0	22 59	23 39	4
15890	HD 118931	13 34.2	24 45	"	"	"	+12.9	23 42	00 36	1
15891	HD 133 022	15 02.0	26 49	"	"	"	+12.8	00 43	01 45	
15892	HD 142 838	15 52.0	+27 20	"	"	"	+12.7	01 48	02 52	
15893	HD 155 339	17 09.0	+25 07	"	"	"	+12.7	02 57	04 21	
15894	HD 164 079	17 54.4	+27 59	"	"	"	+12.7	03 36	04 23	
	Focus Test				O.T.B.					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20 53	W 1 21	25 16	O	8.86 G0	1-1-1	
22 3	W 1 25	25 53	O	878 G5	1-1-1	
22 55	W 2 17	26 02	O	8.28+ G5	1-1-1	
23 37	W 46	24 34	O	8.58 K0	1-1-1	
00 3	1W 06	24 31	O+	5.68 G5	1-1-1	
0. 46	0W 45	+26 37	1-	8.92 K2	1-1-1	
02 5	1W 04	+27 11	O+	8.93 K0	1-1-1	
03 3	0W 26	+25 03	O+	8.19 K5	1-1-1	
04 2c	0W 30	+23 00	O+	8.60 G0	1-1-1	
					4/2	4PH Loaded + 8 H on M

Date Thurs 9/Jan 28-29, 1949 Hd - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle
15895	HD 91590	09 54.4	25 02	I·12	E103aO	C08	+9.0	19 56	20 46	1
15896	HD 91842	10 31.2	28 18	"	"	"	+9.0	20 48	21 45	2
15897	HD 91855	10 31.3	26 41	"	"	"	+9.0	21 50	22 50	3
15898	HD 109482	12 29.5	29 38	"	"	"	+9.0	22 53	23 17	4
15899	HD 116329	13 17.9	26 22	"	"	"	+9.0	23 19	00 01	1
15900	" 123582	14 04.6	22 54	"	"	"	+8.9	00 05	00 39	2
15901	" 126981	14 23.8	24 59	"	"	"	+8.9	00 44	01 10	3
15902	" 142800	15 43.2	28 59	"	"	"	+8.9	01 19	01 34	4
15903A	" 143271	15 54.4	27 09	"	"	"	+8.9	01 38		1
	Focus Set					OTB.				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	W 57	24 43	0	8.40 G5 1-1-1	A S [illegible]
	W 123	28 01	1	8.18 - K0 1-1-1	
	W 225	26 25	1	8.72 + K0 1-1-1	
	W 55	29 21	2	8.63 G5 1-1-1	"
	0 50 W	26 06	2	8.71 + G5 1-1-½	"
	0 42 W	25 40	2	9.27 K2 ½-½-½	"
	0 54 W	24 45	2	8.87 K0 ½-½-½	"
	0 06 E	28 45	3	8.93 K2 ½-½-½	"
		26 59	3	9.37 K0 ½-½	" Errors of exp. too small
				4/2	3 Pts. faint plates rejected, H & M

Date Friday, April 29/30, 1949 Wm-C Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15903	HD 98155	11 12.4	+25 37	I-12	F103a-O	SET .008	+13°9	21 10	22 56	.05
15904	HD 106857	12 12.3	+29 17	"	"	"	+13°3	22 12	23 12	.11
15905	HD 117062	13 22.7	+24 50	"	"	"	+13.2	23 20	00 15	.19
15[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+13.2	00 [illegible]	[illegible]	47"W
15907	[illegible]	15 44	[illegible]	[illegible]	[illegible]	[illegible]	+13.2	01 03	[illegible] 51	[illegible]
15908	[illegible]	[illegible]	27 14	[illegible]	[illegible]	[illegible]	+12	01 56	02 31	[illegible]
15909	AC 7475	11 5[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+13.4	02 39	[illegible]	[illegible]
15910	HD [illegible]	17 39[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+13.2	[illegible]	[illegible]	[illegible]
15911	[illegible]	15 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	+13.2	04 04	04 24	2"W

Set Focus: 12.934

CLOUDS AT STARTING TIME, CLEAR NO SOON
SOME HAZE & CIRR[illegible]

ling Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1ʷ05	+25°20′	1	8.56 KO	1-1-1	AG45
	1ʷ11	+20 00	1	3.34 GO	1-1-1	"
	1ʷ04	[illegible]	1	3.57 G5	1-1-½	"
	47ʷ	[illegible]	[illegible]	[illegible]	½-½-½	
	[illegible]ʷ	25 56	3	3.96 GO	½-½-1	
	[illegible]ʷ	[illegible]	3-2	3.93 KO	½-½-1	
	36ʷ	24 56	2-3	3.95 [illegible]	½-½-1	
	[illegible]ʷ	24 41	2	3.82 M3	½-½-1	
	27ʷ	[illegible]	2	3.73 KO	½-½-½	

W-M 2PH -1

Date Sat. 1949 Apr. 30 - May 1 N - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						Set				
15912	HD 112753	12 53.9	+28 00	1-12½	E103aO	0.008	+18.7	23 12	23 40 3	1 01W
15913	" 114037	13 02.7	+27 03	"	"	"	+18.6	23 46	00 18 4	:33W
15914	" 126598	14 21.4	+26 43	"	"	"	+18.7	00 57	01 07 1	:14W
15915	" 143271	15 54.4	+27 09	"	"	"	+18.5	01 23	02 23 2	:44W
15916	" 151256	16 41.2	+24 46	"	"	"	+18.6	02 26	03 32 3	:17W
	Focus Std					O.T.B.				

(About 100 positions; fairly clear. Low-rotated 74-in. Showed C (and T) with 4-in. Generally cloudy

Finder light found on.

Focus unchanged 12.935

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
[illegible]	1 01 W	27 43	0	8.26 G5	1 - ½ - ½	AG 25
[illegible]	1 30 W	26 47	0-1	8.36 K0	½ - ½ - ½	"
[illegible]	1 01 W	26 30	0-1	8.51 K5	½ - ½ - ½	"
[illegible]	0 44 W	27 00	0-1	9.37 K2	½ - ½ - ½	"
[illegible]	1 07 W	24 39	0-1	8.86 K2	½ - ½ - ½	" clouds $^{02}34 - ^{03}05$ haze, gone at $^{3}32$
					4/2	

1 PH Lead-1 plate needed in June.
H. on M.

Quick Strip 2. Strip and Tube check good up at 2 Dec AM. L

	MC	SC	MTW	STW
May 2	-03°0	-1m 17s	+04m	-0.1

Date Tues May 3, 1949 Hd Leap L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15917	HD91545	10 29.2	28 30	I-12	E103aO	008	+21.8	20 26	20 50 4	W 47
15918	HD 91348	10 27.7	28 18	"	"	"	22.0	21 08	21 54 1	W 152
15919	HD 97777	11 09.9	26 59	"	"	"	21.9	21 57	22 47 2	W 103
15920	HD114636	13 06.7	26 54	"	"	"	22.0	22 50	23 40 3	W 101
15921	AG 6705	14 00.3	26 19	"	"	"	+21.9	23 45	00 49 4	GW
15922	H.D. 133459	14 59.5	27 28	"	"	"	+21.9	00 52	01 10 1	E 38 W
15925	" 140913	14 41.4	28 47	"	"	"	-21.9	01 16	01 38 2	E 34 W
15924	" 149067	16 27.3	26 04	"	"	"	+21.8	01 42	02 14 3	E 14 W
15925	" 152354	16 47.3	29 45	"	"	"	+21.8	02 18	02 50 4	E 3 W
15926	" 155675	17 08.0	25 22	"	"	"	+21.8	02 54	03 38 1	E 38 W
	Focus Test						O.T.B.			

Focus 12.933

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
20 5[illegible]	W 47	28 12	0	7.66 K0	1, 2	AG25
21 5[illegible]	N 152	28 01	0-1	8.77 G5	1, 1, 1	"
22 4[illegible]	W 203	26 44	1	8.98 K0	1-1-1	Bright aurora
23 40	W 101	26 38	1	8.96 K0	1-1-1	"
[illegible]	1 16W	26 05	1	8.70+ K0	1-½-½	"
[illegible]	0 38W	27 16	1-2	8.27 K0	½-½-½	"
01 [illegible]	0 24W	28 37	1-2	8.49 G0	½-½-½	"
02 14	0 14W	25 58	1-2	8.63 K0	½-½-½	"
02 5[illegible]	0 31W	23 37	1-2	8.7? G5	½-½-½	" Wind rising, seeing uncertain
03 3[illegible]	0 58W	25 17	1-0	8.8? G0	½-½-½	" Sky hazing over.
					6/4	3 P.Hs. tested plates needed Hon M.

Date Monday May 5-6 1949 N - L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15927	HD 116332	13 17.2	+26 31	J - 12½	Eic 3a O	.006	+24.0	23 03	23 39 2	
15928	121319	13 49.7	+25 50	"	"	"	+24.0	23 39	00 19 3	
15929	127093	14 24.3	+26 18	"	"	"	+24.0	00 25	00 55 4	
15930	142693	15 47.3	+25 37	"	"	"	+23.7	00 56	01 32 1	
15931	A.G. 7420	15 54.6	+28 02	"	"	"	+23.7	01 36	02 12 2	
15932	HD 152748	16 50.1	+27 45	"	"	"	+23.7	02 16	03 06 3	
15933	163969	17 53.8	+28 15	"	"	"	+23.7	03 12	03 58 4	
	Scans Sky					OTB.				

Adjust focus. Sky 13.143?

Cirrus early in evening. Lightning ... west

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.		REMARKS
	0 41 W	+26 7	2	8 0 Ko	½-½-½	AG 25	swing weight
	1 04 W	+25 [redacted]	1	8 0? Ko	½-½-½	"	
	1 04 W	+26 06	1	7.79 Mo	½-½ ½	"	
	0 20 W	25 27	1	88? Ko	½-½-½	"	
	0 53 W	27 53	1	88? Ko	½-½-½	"	
	0 51 W	27 39	1-2	9.4? Ko	½-½-½	"	Eagle
	0 40 W	28 15	1-2	9.0? G5	½-½-½	"	"
					4/2	4 PHo. Loaded +4, 14 on M.	

Fri, May 6/7 '43 — Clouds & some haze generally
Smg @ Wind. NW

Date Saturday, May 7-8, 1948 (hea) -Ba Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
15934	HD 112257	12 50.3	28 18	I-12	E103aO	008	16.7	22 19	23 13.1
15935	HD 112118	13 48.8	24 40	"	"	"	16.5	23 27 24	00 27 2
15936	137688	15 22.3	28 28	"	"	"	16.3	0031	01 31 3
15937	[illegible]	16 05.7	21 16	"	"	"	16.2	01 35	02 35 4
15938	155989	17 01.1	21 12	"	"	"	16.2	02 40	03 35
15939	168956	18 17.7	21 31	"	"	"	16.2	0353	04 23
	[illegible] STR. 4/2								
	2 PH. Hz. M								

About 80 visitors. Showed ♄, ♂ with 7¼" + 5"
Lea showed ♂ with 4"

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Focus 12.943.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23:51	W 1 05	28 03	0	8.30+G5-	1-1-1
00:[illegible]	1h 21m W	29 25	0	8.96 K0	1-½-½ Set 9 Hazy. Thin Cirrus.
0:[illegible]	52m W	28 17	0	8 54 K2	½-½-½ [illegible] haze
1:[illegible]	1h 13m W	26 07	0	9 64 G5	½-½-½ Haze thickening, low lightning
2:[illegible]	1h 08m W	24 14	0-1	8 95 G5	½-½-½
2:[illegible]	43m W	21 40	1	8 60 K0	½-½-½
					No centre exposure
					Sunday 29 May 38
					Variable [illegible] showers N-L.

152

Date ... Mc L ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15940	M. [illegible]	1 24.9	25 [illegible]	[illegible]	[illegible]	[illegible]	10.9	2017	2107	2
15941	[illegible]	12 06.6	26 17	"	"	"	11.0	2111	2201	4
15942	[illegible]	12 57.3	27 32	"	"	"	10.9	2204	2254	3
15943	[illegible]	14 04.2	25 54	"	"	"	10.9	2259	2349	1
15944	131507	14 48.9	28 55	"	"	"	+10.9	2356	00 46	2
15945	" 143272	15 54.4	26 49	"	"	"	+10.9	00 53	01 47	3
15946	" 151369	16 41.2	26 13	"	"	"	+10.8	02 09	02 59	4
15947	" 163049	17 53.7	28 00	"	"	"	+10.8	03 03	04 09	5
	Same Field						O.T.B.			

Exp 12943

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	36" W	25 37	0	8.72 K2	½-½-½ AG15
	47" W	26 01	0	8.93 G0	½-½-½ "
	53" W	27 11	0	8.84 G0	½-½-½ "
	2" W	25 40	0	8.91 K2	½-½-½ "
	0 52 W	28 42	0	8.79 G5	½-½-½ "
	0 48 W	26 41	0	8.96 K0	½-½-½ "
	1 12 W	26 07	0	8.84 G9	1-¼-¼ "
	1 11 W	27 59	0	9.27 G5	½-½-½ "
					4,2

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Date Wed May 11-12, 1949 4d MC Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15948	HD 91164	10 26.4	25° 14'	I-12	E103a-O	008	11.6°	20:10	21 10 2	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 41	25 00	0	8.43 K_0	1-½-1 Thickening from 20 00 Cloud 23 00. 4 PH loaded Plates recorded
					Thurs May 12 - 13 Thick cirrus haze all evening - Hd.

Date Saturday, May 14/15, 1949 Wm — L (MC?) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15949	HD113658	$13^h33^m.2$	+27°18′	I-12	E103a-O	SET 008	+16.7	22 22	23 22	1
15950	HD 132 737	14.55.6	+27°33′	"	"	"	+16.6	23 29	00 17	2
15951	" 143688	15 56.8	24 44	"	"	"	+16.6	00 51	02 [illegible]	3
15952	" 166683	18 02.7	29 04	"	"	"	+16.6	02 40	03 30	4
	Sun Set					D.T.S.				

L, Wm & MC showed ~ 75 visitors 7h thru 7½. mise views thru 4"

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0W59	+27 03	0!	8.61 G5	1-1-1	AG25
	1 02 W	27 21	0	8.61 K0	1-½-½	AG25 " haze
	1 4½ W	24 36	0	9.7? K0	½-½-½	" haze
	0 36 W	27 03	0-1	9.7? G5	½-½-½	" clouds.
					9/e	4 Pleiades = 8 last minute.

Mon ✓ — 17 — L

Date May 16, 1917 — Mic — **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15952	HD 103[illegible]	[illegible]	[illegible] 07	I-12	E 103a0	0.008	+20.9 C	21 17	22 01	1
15954	HD 1[illegible]	13 [illegible]	[illegible] 44	"	"	"	+20.7	22 17	23 01	2
15955	HD 1[illegible]	14 [illegible]	[illegible] 13	"	"	"	+20.6	23 13	23 35	3
15956	HD 14[illegible]	15 47.4	[illegible] 46	"	"	"	+20.6	23 36	00 32	4
15957	HD 143705	15 56.9	29 13	"	"	"	+20.4	00 36	01 16	1
15958	HD 150931	16 35.1	25 44	"	"	"	+20.4	01 39	02 13	2
15959	HD 163017	17 9.2	35 01	I-12	"	"	+20.6	02 27	[illegible]	3
~~15960~~	~~AG 9236~~	18 43.3	29 19	"	"	"	+20.4	03 22		4
	Focus Test						O.T.B.			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 50W	21 11	1	8.70 M0	½ ½ ½	
	1 53	24 18	1-2	8.9? G5	½ ½ ½	" "
	0 2W	25 09	1-2	8.4? G0	½ ½ ½	" "
00 32	0 01W	27 35	2	8.2? K2	½ ½ ½	" "
	0 36W	29 04	2	8.9? G5	½ ½ ½	" "
	0 58W	25 37	2	8.22 K0	½ ½ ½	" "
	0 30W	25 00	2	8.8? K0	½ ½ ½	" "
			2	9.3 G0		" "
					4/26	4 [illegible]
						Sent in mail.

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Tucson

Date May 17-18, 1949 Hd Mi - Ha **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15960	100393	11 32.3	+5 57	I-12	E 103a-O	.008	23.1	20 20	2154	1
15961	114037	13 02.7	27 03	I-12	E 103a-O	.008		2 20		
	4 min test								OTB	
	114037	13 02.7	27 03	I-12	E 103a-O	008	23.1	23.33	0000	
15963	139550	15 33.7	25 57				23.1	0 17	0100	
15963	147427	16 10.7	22 31				23.1	0 44	01 48	
15964	151554	17 12.7	25 00	"	"	"	23.1	1 52	0275	
15965	163969	17 53.8	20 15	"	"	"		0239	0339	

Focus 12.9 +.5

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2:57	1 43 W	-5° 44'	0	8.49 F_0	½ ½ ½ Clouds and haze
				8.36 K_0	½ Set 5 Clouds between plates + after
					½ set 9
	2' W	26 48	1	8.36 K_0	½ - ½ - ½ Set 1
3:13	1 W	25 47	1	8.89 F_5	½ - ½ - ½
01 48	52' W	27 28	1-2	8.1 G_0	½ - ½ - ½ Haze
02	43 W	27 05	2-1	8.1 F_5	½ - ½ - ½ Haze + Cloud conditional
3		29 N	1	8.1 F_5	½ - ½ Haze + Cloud
					2PE 5-11

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May

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	.008	16.0	2030	2130	4
15967	115103	[illegible]	2955				16.0	2134	2224	1
15968	123677	14 05.1	26 14	"	"	"	16.0	2227	2322	2
15969	134688	15 06.1	27 48	"	"	"	16.0	2326	00 20	3
15970	" 143313	15 54.6	25 32	"	"	"	15.8	00 43	01 37	4
15971	" 156454	17 12.6	26 41	"	"	"	15.8	01 51	03 03	1
15972	AG 8898	18 21.9	29 21	"	"	"	15.8	03 17	04 07	2
	Focus Test				O.T.B.					

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1h 06m W	25 37	0	8.84	K $\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	AG 25
	47m W	29 40	0	8.77	G0 $\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
	46m W	26 05	0	8.92	K $\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
	0 45 W	27 36	0	8.9?	K0 $\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
	1 17 W	25 42	0	8.91	K5 $\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
	1 25 W	26 37	0-1	9.4?	G5 $\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
	1 20 W	29 22	0-1	9.0?	K0 $\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
					4-2½	

3 PHs taken top of picture needed 1 hr minus.

Sat May 21-22, 1949 About 40 minutes Hd. 1½ showed ½ with 7h Thickening up.

Mon May 23-24 Some breaks in evening but mostly cloudy

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Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15973	HD 123612	14 03.6	24 47	I-12	[illegible]	[illegible]	+16°	22 ~~20~~ 40	23 03 3	
15974	HD 131972	14 51.6	24 48	"	"	"	+16°	23 03	23 40 4	
15975	HD 136901	15 19.1	24 59	"	"	"	16°	23 43	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	15°	01 34	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	

Primary check centers in mirror B
Initial focus.

Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
~~1h 45m~~ 2h 25m	24° 35'	0	T.56 K2	½ - ½ - ½ Long exp to pull values from noise
1h 35m	24° 35'	0	T.16 K2	½ - ½ - ½
		0	T.16 K0	½ - ½ ½
1h 05m W	24° 35'	0	T.16 K2	½ - ½ - ½
0h 25m W	24° 15'	0	T.16 K2	½ - ½ - ½
				½ - ½ - ½
		0	T.16 K2	½ - ½ - ½

May 22 STW +0.5 -0.7

May 25-27 Sky overcast with rain.

Thursday May 26/27 1949 [illegible]

Date ..... **Julian Day** .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15980	167472	18h13m [illegible]	[illegible]	I-12	103a0	.008	+9.4°	02 22	0242	
15981	173455	18h02	+26 08	I-12	103a0	.008	-9.0	0311	0401	
Focus Test 0.7 B										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS
1142		+28 11	0-	7.53 Ko	½	½	½	
1411	0120 W	+26 11	0-	5.72 G5	½	½	½	

L · Gr Mc

Date Friday May 27 - 28 1949 **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
15982	HD 107723	12 17.6	+21 09	I 12½	E 103a-D	SET .008	+11.5	20 53	21 43	3
15983	" 118658	13 33.2	27 18	"	"	"	+11.6	21 46	22 30	4
15984	" 130766	14 44.9	25 35	"	"	"	+11.6	22 33	22 53	1
15985	" 132524	14 54.5	25 27	"	"	"	+11.6	22 56	23 18	2
15986	" 142915	15 51.2	25 28	"	"	"	+11.6	23 33	00 19	3
15987	" 150087	16 33.1	27 35	"	"	"	+11.6	00 29	01 15	4
15988	BD 26° 3039	17 28.8	+26 50	"	"	"	+11.6	01 35	02 24	5
15989	172432	18 32.4	28 50	"	"	"	+11.5	02 31	03 05	6
15990			Double Test							
			OTB							

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21 47	1 27 W	26 54	0	8.75 K_2	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	AG 25
22 30	0 53 W	27 03	0	8.5? G_5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
22 52	0 10 W	25 22	0-1	8.06 K_0	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
23 14	0 25 W	25 15	0-1	8.19 G_5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
0 [illegible]	0 29 W	[illegible]	0-1	8.97 G_5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
[illegible]	[illegible]	27 28	0 1	8.99 G_5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
[illegible]	[illegible] W	[illegible]	0-1	9.7 ~~?~~ Go ~~K_0~~	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	"
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$	" haze.

accidently marked 15987 on plate
~~15987~~ on plate

clouding up rapidly at 03 00. MC

0 fr. loaded

There was sparking from the bridge cct during exposure of some of the plates MC

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28-29

Date Sat May ~~29/30~~ 1977 Ba He Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
15990	ND 132524	9 595	25 37	[illegible]	[illegible]	[illegible]	+11.1	2246	2312	22
	~~128152~~	~~15 2~~	~~27 25~~				11.1	~~2315~~		
15990F	Final Test CTIO 4m Kiwi!					2"				

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
3	22 W	25 15	O+	8.19 K2	½ - ½ - ½	for it
		27 15	O+	~~8.96 K0~~	½	Cloud at 23.25-23.5 Haze,
						2 FA + 4 for M for OK

Date Sunday Apr. 20-21/40 L. Mt. Gr. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
15901	H.D. 103012	12 26.5	27 38	I-12½	F mean 0	set .008	+13.4	20 18	21 56	3
15902	" 122796	13 [illegible]	27 58	"	"	"	+13.4	21 59	22 23	4
15903	" 129357	14 37.0	29 30	"	"	"	+13.3	22 ~~21~~ 28	23 00	1
15904	" 135145	15 08.5	28 19	"	"	"	+13.2	23 06	23 40	2
15905	" 139007	15 30.5	25 20	"	"	"	+13.3	23 44	00 30	[illegible]
15906	" 150889	16 38.8	+26 02	"	"	"	+13.3	00 37	[illegible] 57	[illegible]
15907	" 155[illegible]2	17 09.2	26 04	"	"	"	+13.3	01 01	01 43	[illegible]
15908	" 162901	17 48.3	25 00	"	"	"	+13.2	02 05	02 43	[illegible]
15909	HG 9449	18 35.5	29 29	"	"	"	+13.0	[illegible]	[illegible]	[illegible]
	Focus Test			SET E						

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
21 55	1 38 W	27 21	C	9.3? K_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	A.G. 25 seeing improving
22 23	0 33 W	27 44	0-1	8.8? G_5	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
23 [illegible]	0 33 W	27 17	0-1	8.3? G_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
23 [illegible]	0 41 W	28 07	0-1	9.6? G_5	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
00 3	1 09 W	25 09	0-1	8.9? G_5	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	" slide not closed when hatch closed
[illegible]	0 28 W	25 54	0-1	8.0? K_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
1 [illegible]	0 43 W	27 59	0-1	8.7 G_5	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
[illegible]	1 07 W	24 52	0-1	8.7? K_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
[illegible]	1 09 W	31 31	0-1	9.2? G_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
					4 - 2 $\frac{1}{2}$	

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
	108976								
15994	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	116329	[illegible]	[illegible]	"	"	"	18·1	[illegible]	22 05
[illegible]	123617	14 [illegible]	[illegible]	"	"	"	18·2	[illegible]	2230
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	18·2	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	18·3	2319	2350
16004	145370	16 08·3	26 42	"	"	"	18·4	0005	0049
16005	154625	17 11·6	[illegible]	"	"	"	18·4	0110	0152 1 42?
16006	161268	17 39·5	27 [illegible]	"	"	"	18·2	0152	0231
16007	176685	18 58·4	23 33	"	"	"	18·3	0244	0326
16008	187462	19 [illegible]	27 29	"	"	"	18·3	0336	0350
[illegible]									
[illegible]									
[illegible]								

Form IE-744 175

Declination clamp sticking at first

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1 [illegible] W	2 [illegible]	2-1	9.1	G5	½-½-½ 1025
22 05	1 [illegible] W	[illegible]	2-1	8.91	G5	½-½-½ [illegible]
[illegible]	0 41 W	21 05	2	8.12	K2	½-½-½
[illegible]	0 41 W	27 47	2-1	[illegible]	[illegible]	½-½-½ Much daylight in field
[illegible]	0 39 W	27 [illegible]	2-1	8.96	[illegible]	½-½-½
36 [illegible] 1 42 [illegible] 052	0 43 W	26 39	2-1	9.0?	K2	½-½-½
[illegible]	0 [illegible] W	25 [illegible]	1-0	8.8	K0	½-½-½
[illegible]	0 [illegible] W	27 02	1-0	8.9	K2	½-½-½
[illegible]	0 44 W	25 35	0	2.7	K2	½-½-½
[illegible]	0 38 W	27 30	0-1	7.6	G0	½-½-½
						2 PH Ended
						H. O. M.

Date June 31 June 1/49 S.L.Gr. Julian Day

Plate No.	Object	R.A. 1900 1950	Declination 1900 1950	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16009	NGC 5272	13 39.9	+28 38	NEWT	103a O			21 17	2 20 1	
16010	" 5024	13 10.5	18 26	"	"			21 29	21 27 2	
16011	" 4147	12 07.6	18 40	"	"			21 31	21 43 1	
16012	" 6229	16 45.6	47 37	"	"			21 32	21 51 2	
16013	" "	"	"	"	"			21 56	22 [illegible] 1	
16014	"	"	"	"	"			22 12	22 24 2	
16015	" 5634	14 27.0	-5 45	"	"			22 [illegible]	22 4[illegible] 1	
16016	" 5904	15 16.0	+2 16	"	"			22 54	22 [illegible] 2	
16017	" 6220	16 45.6	47 37	"	"			23 09	23 [illegible]	
16018	" "	"	"	"	"			23 20	[illegible]	
16019	" 6205	16 37.9	+6 33	"	"			[illegible]	23 37	
16020	" 6205	16 45.6	47 37	"	"			23 49	[illegible]	
16021	" "	"	"	"	"			[illegible]	00 10	
16022	" 5634	14 27.0	-05 41	"	"			00 21	0[illegible]	
16023	" 5897	15 14.6	-20 42	"	"			0639	[illegible]	
16024	" 6218	[illegible]	-1 52	"	"			[illegible]	[illegible]	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 01 E	28 42	fair		Focused on ε Virginis
	0 35 W	18 30			
	1 54 W	18 54			
	2 33 E				
	2 16 E				
	2 02 E				
	0 32 W	-05 39			
	0 [illegible]	+02 21			Focused on α Serpentis
	1 [illegible] E	+47 41			Exposed through glass!
	0 [illegible] E	+47 41			Exposed through glass!
	0 43 E	+16 57			
	0 [illegible] E	+47 41			
	0 16 E	"			
	2 28 W	-05 39			
	1 54 W	-20 44			
	0 37 W	-01 47			Focused on β Ophiuchi

Date May 31 Grunel cont. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16025	NGC. 6254	16 54.5	-4 02	NEWT	103a O			01 05	01 08 1	0 33
16026	" 6333	17 16.2	-18 28	"	"			01 12	01 18 2	1 21
16027	" 6366	17 20.7	-17 46	"	"			01 22	01 34 1	1 33
16028	" 6093	16 14.1	-22 52	"	"			01 37	01 43 2	4 [illegible]
16029	" 6333	17 16.2	-18 28	"	"			01 47	01 53 1	1 56
16030	" 6838	19 51.3	+18 38	"	"			01 58	02 02 2	[illegible]
16031	" 6779	19 14.6	+30 05	"	"			02 07	02 11 1	1 44
16032	IC 1276	18 08.4	-07 15	"	"			02 21	02 39 2	1 51
16033	NGC 6712	18 50.5	-08 47	"	"			02 43	02 53 1	1 22
16034	" 6838	19 51.3	+18 38	"	"			02 57	03 01 2	3 [illegible]
16035	" 7089	21 30.9	-01 03	"	"			03 07	03 08	2 [illegible]
16036	6626	18 21.5	-24 54	"	"			03 14	03 15	3 [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 03	0 33 W	-03 58			
01 18	0 21 W	-18 23			
01 34	0 33 W	-17 41			
01 43	1 48 W	-22 45			
01 55	0 56 W	-18 24			
02 02	1 29 E	+18 43			
02 11	0 44 E	+30 11			
02 32	0 51 W	-07 12			
02 53	0 22 W	-08 42			
03 01	0 30 E	+18 42			
03 05	2 02 E				1 min. unguided
03 [illegible]	1 13 W	-24 52			1 min unguided
					June 1 MTC -21.3° STC -22.9° AHW -88° STV +01m

Date Wed. June 1 - 2, 1949 S-T-G-X Julian Day

Plate No.	Object	R.A. 1960	Declination 1960	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
16037	NGC 5272	13 39.9	+28 55	NEWT	103a0			21 20	21 22	1
16038	" 5064	13 10.5	+18 26	"	"			21 25	21 27	2
16039	" 4147	12 07.6	+19 45	"	"			21 30	21 38	1
16040	" 5634	14 21.0	-05 45	"	"			21 44	21 56	2
16041	" 6205	16 45.6	-47 37	"	"			22 05	22 18	1
16042	" "	"	"	"	"			22 20	22 28	2
16043	" 5904	15 16.0	+2 16	"	"			22 33	22 55	1
16044	" 5634	14 27.0	-05 45	"	"			22 59	23 51	2
16045	" 5024	13 10.5	+18 26	"	"			22 55	22 57	1
16046	" 6205	16 45.6	-47 37	"	"			23 05	13 17	2
16047	" "	"	"	"	"			23 10	23 24	1
16048	" "	"	"	"	"			23 26	23 28	2
16049	" 6205	16 39.2	-36 53	"	"			23 32	23 33	1
16050	" 6229	16 45.6	-47 37	"	"			23 39	23 49	2
16051	" 6515	16 44.5	-01 52	"	"			00 00	00 02	1
16052	" 6251	16 32.2	-24 08	"	"			00 06	00 08	2

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 05W	23 44	fair		Some Focused on ε Virginis
	0 43W	18 30			light
	1 37W	12 53			cirrus
	0 08E	-05 42			clouds
	2 04E	+17 42			← Focused on ζ Herculis
	1 41E	+17 47			
	0 19E	+02 50			
	0 47W	-5 11			
	1 10W	12 32			
	1 05E	+11 42	good		
	0 36E	"			
	0 04E	"			
	0 43E				
	0 32E	+47 12			Focused on κ Ophiuchi
	0 19E	-01 45			
	0 24E	-05 27			

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Date June 1-2 Cont. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
160 53	NGC 5897	-15 19.6	-20 49	Newt	E-3a-J			00 13	00 [illegible]	1
160 54	" 6426	17 42.4	103 12	"	"			00 27	00 51	2
160 55	" 6333	17 16.2	-18 28	"	"			00 55	01 01	1
160 56	IC 1276	18 08.4	-07 15	"	"			01 07	01 27	2
160 57	NGC 6779	19 19.6	+30 35	"	"			01 32	01 35	1
160 58	" 6838	19 51.3	+18 38	"	"			01 39	01 42	2
160 59	" 6093	16 14.1	-22 52	"	"			01 50	01 53	1
160 60	" 6353	17 16.2	-19 28	"	"			01 55	02 01	2
160 61	" 6255	16 50.9	-22 06	"	"			02 05	02 29	1
160 62	" 6287	17 04.0	-22 40	"	"			02 34	02 44	2
160 63	" 6712	18 50.3	-08 47	"	"			02 47	02 55	1
160 64	" 6838	19 51.3	+18 38	"	"			02 59	03 02	2
160 65	" 7089	21 30.9	-01 03	"	"			03 08	03 [illegible]	1
160 66	" 6626	18 21.6	-24 54	"	"			03 13 30	03 15 30	[illegible]
160 67	6626	18 21.6	-24 54					03 17 15	03 18	[illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	1 30 W	-20 45			
	0 28 E	+23 16			
	0 03 W	-19 22			
	0 13 E	-07 10			R.A. 18 07.5
	1 16 E	+30 10			
	1 15 E	+18 42	poor		7 overcast 5 Ophiuchi
	1 02 W	-22 44			possibly number 16060
	1 08 W	-19 21	poor		number followed by *
	2 11 W	-21 55			20[s] Centaurus
	2 06 W	-22 34			
	0 29 W	-19 42	poor		
	0 25 E	-19 44			
	1 57 E				unguided
	1 15 W				
	1 08 W				unguided

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Date ... 43 Sa – Mo ... Julian Day ...

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Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16068	HD 115742	13 [illegible]	[illegible]	1 C'	[illegible]	[illegible]	23.0	20 42	21 38
16069	124019	14 05.9	[illegible]	"	"	"	23.1	21 41	22 27
16070	133459	14 59.5	27 28	"	"	"	23.1	22 30	23 00
16071	136279	15 14.7	[illegible]	"	"	"	23.1	[illegible]	23 39
16072	141906	15 [illegible]	[illegible]	"	"	"	23.1	[illegible]	[illegible]
16073	147+24	16 [illegible]	[illegible]	"	"	"	23.1	00 11	00 59
16074	150479	17 [illegible]	26 06	"	"	"	23.1	[illegible]	[illegible]
16075	160822	18 21.4	[illegible]	"	"	"	23.2	[illegible]	[illegible]
16076	165002	19 11.7	28 58	"	"	"	25.0	[illegible]	03 30
	137258	19 49.2	[illegible]	"	"	"			

Focus test O.T.B.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
						fair-ok
					½-½-½	AO 25 PA guiding not too good.
					½-½-½	" good
					½-½-½	" good
					½-½-½	Seeing middling good
					½-½-½	" good
					½-½-½	good
					½-½-½	
					½-½-½	
					½-½-½	haze " poor guiding
						haze
						plate not kept. Zp.h. [illegible] -8 [illegible]

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Date Sat June 4-5 1949 Hk Mc Gr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16077	HD139749	15 34 8	26 04	I-12	E10340	008	25.3	23 20	00 13 1	1051
		Focus test		O.T.B.						

About 40 visitors. Showed ♄ with 7¼" (with 4". (5" n.s. a/c Spectroscope in path of light)

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0013	1 05W	25 54	0	8.43 G5	½ ½ ½ Clouds. Sky clouded over at 0510. 1 ph. loaded +8 – "In Refrigerator" H or M

Date ~~Friday~~ Sun June 5 - to 1949 Mi Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16078	117062	13 22 7	24 59	I-12	103a-0	.008	22.9	21 04	22 34	-3
Focus										
Foc at 0 TC										
-/Mi 12.044										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
2230	0143	24 35	0	9.2 Gs	Hazy & cloudy (light overcast) Clouds gone by 2200 but still hazy ½ - ½ ½ - ½ Focus tested every half hour Observer, sky conditions + P.H. Corbett - ref. H. on M. Clouds 2250 MC SC Guide -25.0 14 4 -23.0 0.0

Date Monday June 6-7 1949 Ma- Gr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16079	HD. 115929	13 15.2	+28 37	I 12½"	103a-O	008	22.0	20 48	21 19	1
16080	" 121344	13 52.9	+25 31	"	"	"	22.0	21 23	22 07	2
16081	" 128×12	14 [illegible]	[illegible] 27 55	"	"	"	22.0	22 13	22 35	3
16082	HD 140373	15 [illegible]	+21 57	"	"	"	21.8	22 59	23 39	1
16083	" 147970	16 19.9	+28 37	"	"	"	21.7	23 42	2[illegible]	[illegible]
16084	" 154183	16 58.2	+25 48	"	"	"	21.8	00 00	00 54	2
16085	" 160678	17 36.2	+29 18	"	"	"	21.5	00 59	01 37	3
16086	" 168622	18 15.6	+27 28	"	"	"	21.4	01 42	02 32	4
16087	" 182056	19 17.8	+30 11	"	"	"	21.4	02 39	03 10	1
16088	" 190605	20 00.7	+25 47	"	"	"	21.4	03 14	03 50	2
	Focus test		O.T.B.							

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Try increasing focus to 12.954 (from 12.944

Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
0 44 W	+28 22	0-1	8.5?	G_0	½-½-½	seeing variable
0 53 W	+23 15	0-1	8.9?	K_0	½-½-½	" improving slightly
1 06 W	+28 43	0-1	8.9?	G_0	½-½-½	R.A. clamp slipped
0 12 W	+29 47	1	8.9	K_0	½-½-½	DEC clamp OK
0 19 W	+29 30	1-1-2	7.7?	K_0	½-½-½
0 36 W	+28 43	0-1	9.1?	G_0	½-½-½
0 42 W	+29 15	0-1	8.7	K_0	½-½-½
0 57 W	+27 29	0	8.9	K_0	½-½-½
0 34 W	+30 15	0	8.4	G_5	½-½-½
0 31 W	25 50	0	8.7?	G_0	½-½-½

2 FU (added + 2 in ring
W = R

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Date June-July 1949 L. Mi Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16087	HD 119544	13 41.3	27 45	I 12½	E 103a-O	5cc .20B	+13.5	21 00	21 52 1
16090	AG. 68883	14 29.7	24 51	"	"	"	+13.5	22 30	23 05 1
16091	HD 141176	15 42.6	25 23	"	"	"	+13.4	23 10	0016 2
16092	HD 154892	17 02.5	23 16	"	"	"	+13.2	00 22	0118
16093	AC 56656	18 01.9	-25 44	"	"	"	+13.1	0125	0215
16094	HD 172057	18 52.9	+1 37	"	"	"	+13.0	0221	0305
16095	HD 188428	19 49.2	+7 50	"	"	"	+13.1	0311	0349
Focus Plate									
D.T.B.									

Form 12.537

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
[illegible]	0 56 W	27 29	0-	8.56 Ko	½-½-½ N.S.	[illegible]
[illegible]	1 21 W	24 56	0-	8.6 Go	½-½-½ " "	Lost time in resetting [illegible]
[illegible]	1 12 W	25 15	0	8.84 Go	½-½-½	[illegible]
[illegible]	1 01 W	28 11	0	8.8 Ko	½-½-½	[illegible]
[illegible]	1 00 W	25 38	0-	8.[illegible] G	½-½-½	[illegible]
[illegible]	0 50 W	[illegible]	0-1	[illegible] K	½-½-½	[illegible]
[illegible]	1 46 W	27 56	0	8.7 K2	½-½-½	[illegible]

H on M.

2 PH loaded + 8 plates — fog

Date Wed June 6 3/42 L-M Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16056	HD. 121184	13 49.8	24 40	I 12½	E-103a-O	Set .008	+15.9	21 00	22 00 3
16057	" 134282	15 03.9	27 05	"	"	"	+15.9	22 04	23 04 4
16058	" 149132	16 27.7	29 49	"	"	"	+16.8	23 05	0 05 1
16059	" 154043	17 08.0	31 10	"	"	"	+16.0	0 11	1 11 2
16060	" 165472	18 04.1	29 04	"	"	"	+15.7	1 12	2 12 3
16061	~~HD. 170410~~	18 42.9	28 19	"	"	"	+15.3	2 14	3 14 4

Wrong star - close companion to AG 9236

Spectra

OTF

Grav. 12 3:4

Reading Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp.	REMARKS
[illegible]	1 00 W	24 26	0	8.96 Ko	½-½-½	A.G.25 Low pr.! Knock
[illegible]	0 50 W	26 [illegible]	0	8.63 Ko	½-½-½	" " " " it Lt.
[illegible]	0 [illegible] W	25 44	0	8.70 Ko	½-½-½	" " " "
[illegible]	0 52 W	25 06	0	9.00 Ko	½-½-½	" " " "
[illegible]	[illegible] W	23 [illegible]	0	3.4 Ko	½-½-½	" " mag. from dust. rise
[illegible]	[illegible]	22 21	0	9.5 Ko	½-½-½ A-L½	" " " " " Knock-[illegible]
						At P.H. looked, plate molded. H [illegible] (Mt. [illegible]) No [illegible]

Date Thursday June 9-10 Ma- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16102	H.D. 118971	13 35·3	+26 26	I 12½	103a-O	0·008	19·8	20 53	21 [illegible]
16103	" 128185	14 30·4	+28 49	"	"	"	19·8	21 50	2 3[illegible]
16104	" 158038	17 21·8	+27 23	"	"	"	19·7	22 36	23 24

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	0 15W	+26 11	0-1	8.8? G_5	½-½-½ Aft. Thin cirrus overhead - bank moving in
	0 56W	+28 36	1-2	8.6? G_0	½-½-½ from western horizon. 21:00 [illegible]
	1 0+E	+27 20	2-3	8.5? K_0	½-½-½ [illegible] from 21 [illegible] 21:50 — 21:10 hazy [illegible]
					[illegible] 22:40 [illegible]
					23:30 clouds solid!
					Forgot To Take focus test.
					1 P.H. Loaded in reflex. with one spool box of plates: 2

Date Friday June 10-11, 1949 HL - GY **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
16105	HD 1,9944	13 41.3	27 43	I-12	E103a0	008	23.0	20 51	21 45	4
16106	HD 131509	14 48.9	28 35	"	"	"	23.0	21 48	22 28	1
16107	HD 136274	15 14.7	26 04	"	"	"	22.8	22 30	23 06	2
16108	HD 136231	15 14.4	26 09	"	"	"	22.0*	23 05	23 46	3
16109	HD 150567	16 [illegible]	29 06	"	"	"	21.8	23 48	00 09	4
16110	" 155675	17 08.0	25 22	"	"	"	22.8	00 20	00 50	1
16111	" 163331	17 50.5	27 37	"	"	"	22.8	00 54	01 14	2
16112	AG 8829	18 16.1	26 28	"	"	"	22.8	01 18	01 48	3
16113	HD 175036	18 48.4	26 24	"	"	"	22.8	01 51	02 23	4
16114	" 182753	19 25.9	28 31	"	"	"	22.8	02 27	03 00	
16115	190630	20 00.8	30 14	"	"	"	22.8	03 04	03 41	
	Focus Test	O.T.F.								

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 45	W1 00	27 29	0-1	8.76 K_0	1-1-1	Haze
22 21	W0 36	28 41	1	8.79 G_5	½-½-½	
23 02	W0 48	25 54	1-2	8.30(+.4) G_0	½-½-½	
23 46	W1 29	25 57	3	8.96+ G_0	½-½-½	* Temp. control ceased working; filters and/or slide need cleaning. Difficulty in maintaining balance.
00 09	0 31 W	29 00	3	8.75 K_2	½-½-½	Slide closed at [illegible]
00 56	0 39W	25 18	2	8.9? G_0	½-½-½	
01 14	0 21W	27 37	2-3	8.64 K_0	½-½-½	
01 48	0 30W	26 29	3	9.3? K_2	½-½-½	
02 22	0 32W	26 28	2	8.77 G_0	½-½-½	
03 00	0 32W	28 36	2	9.0? K_2	½-½-½	
03 34	0 39W	30 22	2-3	9.3? K_0	½-½-½	

2 P.H. loaded. Plates muddy!
(in Refrig)

Heat or Mine

200

Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	
16116	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27	2203	2247	
16117	141690	15 45.3	25 41	"	"	"	27	2252	2320	4
16118	145394	16 05.5	27 14	"	"	"		2327	0003	1
16119	151150	16 44.4	26 46	"	"	"	+27.2	00 06	[illegible]	2
16120	153618	17 30.5	29 49	"	"	"	+27.1	00 32	01 10	3
16121	" 166070	18 03.9	27 23	"	"	"	+27.1	01 18	01 56	4
16122	A.G. 9496	18 57.3	26 15	"	"	"	+27.0	01 59	02 53	1
	Prev. Vest				O.T.	B				

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
			2-3		½-½-½	BEST Slight Cirrus Haze. good
			2-3		½-½-½	" good
	0 59 W		2-3		½-½-½	" good
	0 45 W	26 41	2-3		½-½-½	" haze hazy
	0 41 W	29 47	2-3		½-½-½	" hazy
	0 [illegible]	27 23	2-3		½-½	" haze [illegible] good
	0 57 W	26 19	2-3		½-½-½	" cirrus, sky clearing good
					f/2½	south slightly [illegible]
						Transition [illegible]
						[illegible]

Date 1959 June 12/13 Fri-Mo Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16123	HD 122693	13 593	25 03	5-12 B	103a-0	.008	28.2	2050	21	
16124	14-0019	14 025	28 25				28.2	2110	2126	
16125	BS 5527	14 226	29 30				28.2	2131	2143	
16126	HR 5509	14 [illegible]	29 [illegible]				27.2	2144	2155	
16127	13 Boo	15 000	27 45				28.1	2209	2233	
16128	BS 5570	15 252	30 [illegible]				29.1	2241	2321	
16129	[illegible]	15 3[illegible]	25 41				28.0	2325	2341	
16130	16 Boo	15 509	21 29			"	29.0	2355	2421	
16131	17 Boo	15 547	21 49	"	"	"	29.0	0021	0155	
16132	16 Boo	15 [illegible]	23 53	"	"	"	28.6	0050	0141	
16133	AG 9[illegible]9	15 [illegible]	21 01	"	"	"	27.6	0144	0220	
16134	HD 135782	15 510	27 29	"	"	"	27.9	0232	0256	
16135	[illegible]	15 517	21 25	"	"	"	27.9	0310	0344	
	Forest Tail							O.T.B.		

Monday from 13 ; 50 meeting (Chuck prof)
Griffin

Exhibit .015 203
Mercantile, 12.9.65

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
2	0 09W	2 n -0	3	7.9	G_0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
11:	2 25W	27 57	3	5.7	B_5	$\frac{1}{2}-\frac{1}{2}-2$
03	0 11W	29 16	3	8.3	G_0	$\frac{1}{2}-\frac{1}{2}-2$
1:5	0 21W	21 -4	3	8.7	G_5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
1:E	0 31W	21 16	3-2	5.9	K_1	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
1:1	0 53W	27 -4	2-1	9.0	G_5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
1:1	0 21W	27 04	2-1	8.0	K_0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
2:2	0 31W	27 02	2-3	8.7	M_3	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
2:3	0 31W	26 01	2	8.7	K_0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
2:4	0 51W	27 01	2	9.27	G_0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
2:5	0 51W	26 01	2-3	9.1?	G_0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
2:E	0 25W	27 37	3	8.7?	G_5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
3:1	0 56W	29 42	2-3	9.4?	K_5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$
						? - 2½

Some haze

Put 1 count=2 in Top of star spectra

Final 09

1 P.M. Hazed in again. Many layers of thin cirrus

2 Hazed again in evening.

Date Sat June 18-19, 1949 ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16135	AD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	HD 167781	11.7	+27 09	"	"		[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	HD [illegible]	[illegible]	[illegible]	"	"	"	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	HD 170737	18 25.9	26 36	"	"	"	[illegible]	02 32	03 [illegible]	[illegible]
16140	AF 11546	30 32.4	25 50	"	"	"	+26°C	03 16	03 40	[illegible]
	Focus Test						Outside Temp.			

19+9 2 mm 5-7 Thursday Ra-Ma
Generally cloudy all night
with shower at 2+ 09

Jun. 16 MC −33.2 SC −28.3 MTW +06.6 STW −0.1

Set June 1-10 50 Vacation. Mr. HC
showed 175 mgs 75. 0 meets 5
by 4 doubles with 4" + mixing mgs

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	5W	05.45		8.9 F5	½-½-½	4625
						23.55 clear. Trouble with dome turnin'
	0 25E	−25		8.56 G5	½-½-½	"G25
		+37 W		8.1 F5 8.8 G0	½-½-½	" very star !
	1 W	−27 05	1	8.8 G0	½-½-½	
	W	+74 38	1½	5.15 G5	½-½-½	"
	2 37W	−31 01	2	8.73 G0	½-½-½	" very light wisps that make
					½	

Date Sun. June 19-20, 1949 G.r Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16141	HD 127386	14 26.0	+25 33	I 12½"	E-103a-O	.008	28.8	21 06	21.52	
16142	" 137003	15 18.6	+28 24	"	"	"	28.7	21 56	22 24	
16143	" 145404	16 05.7	+26 16	"	"	"	28.8	22 29	23 03	
16144	" 150102	16 33.8	+27 15	"	"	"	28.8	23 06	23 34	
16145	" 154760	17 02.3	+26 38	"	"	"	28.8	23 37	00 15	
16146	" 161197	17 39.1	+24 50	"	"	"	28.8	00 19	01 05	
16147	" 172311	18 34.4	+28 13	"	"	"	28.5	01 09	02 04	
16148	" 186517	19 34.8	+27 12	"	"	"	28.5	02 08	01 58	
16149	" 195967	20 29.3	+29 11	"	"	"	28.5	03 03	03 41	
	Focus test			O.T.B.						

Focus 12.955
Slit .008

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21·52	0 58 W	+25 21	0-1	8·7 ? G_5	½-½-½	AG 25
22 24	0 38 W	+28 14	0-1	8·47 K_0	½-½-½	"
23 03	0 29 W	+26 08	0-1	8·64 G_5	½-½-½	"
23 34	0 32 W	+27 08	0-1	8·42 M_0	½-½-½	"
0 15	0 45 W	+26 35	0	8·63 G_5	½-½-½	"
0 55	0 59 W	+24 47	0	8·68 G_5	½-½-½	" Hazy
1 34	1 03 W	+28 15	0	8·91 K_0	½-½-½	" "
2 16	0 51 W	+27 18	0-1	9·0 ? K_0	½-½-½	"
03 4	0 45 W	+24 19	0-1	8·7 ? K_5	½-½-½	"

4 PH. loaded +9

208

Date Mon June 20-21, 1949 **Mc Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1615 D	HD 122693	13h 53m 3	25° 03'	I-12	E 103a-O	0.008	+31°0C	21 52	22 [illegible]	
49 F	Focus test		— Outside							

Try increasing focus to 12.965

Set 0.008

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		2-47	D	7.9260	½ NGC 25 thick haze. lightning 22 01 closing up.

210

Date Tues June 21-22 1949 M.L. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16151	HD 123612	14 03.6	24 47	1-17	[illegible]	0.03[illegible]	27.0	2206	2226	2 02
16152	HD 147980	16 19.9	28 37	1-12	"	"	26.7	2231	2301	3 21
	Focus test			O.T.B.						

Nov. - Dec. 1969

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21½	2 02 W	24 34	<0	7.5	K2 ½ -½ -½	AC 25 Exposures to determine atmospheric extinction
21½	0 21 W	21 29	0-	7.6	K0 ½ -½ -½	

Lubbock east bearing in. Three towers recorded.

1 PM ended +9 extra.

Date Wed. June 22-23 Gr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16152	HD 130766	14 49.9	+25 35	I 12½	E 103a0	.008	25.2	21 11	21 53	
16153	" 139749	15 34.8	+26 04	"	"	"	25.2	21 57	23 09	
16154	" 152306	16 47.5	+28 17	"	"	"	25.1	23 12	23 42	
16155	" 158332	17 23.6	+26 53	"	"	"	25.1	23 45	00 41	
16156	" 169573	18 20.2	+26 17	"	"	"	24.9	00 46	01 50	
16157	" 186260	19 38.2	+26 50	"	"	"	25.0	01 53	02 57	
16158	" 197263	20 37.5	+27 55	"	"	"	25.0	03 00	03 40	
	Focus test			O.T.B						

Slit .008 23

Foous 12.964

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21 53	0 53 W	+25 28	0	7-7?	K_0 ½-½-½	AG 25. Added 1 mag f. hazy.
23 [illegible]	1 18 W	+25 56	0	8-8?	G_5 ½-½-½	" " 0.5 " " "
2[illegible] 45	0 39 W	+28 12	0	7-8?	G_5 ½-½-½	" " 0.5 " " "
00 4	1 03 W	+26 50	0	8 7?	G_5 ½-½-½	" " 0.2 " " "
0[illegible] 5	1 15 W	+26 18	0	9.0?	K_0 ½-½-½	" " 0.2 " " "
0[illegible] 5	1 04 W	+26 57	0	9.0?	G_5 ½-½-½	" " 0.2 " " "
0[illegible]	2 48 W	+28 04	0-1	8-8?	G_0 ½-½-½	"

3 PH. loaded. Log of plate mailed

	VL	SC	HTN	CTV
Jun 23	-41 6	-23 0	+20 [illegible]	+0 3

214

Thurs. June 23-24. cloudy; occas. light rain. Mc.
cleared at 01 15

Date Thurs June 23-24/19 Mc **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16159	HD 166822	18 07 3	+25 17	1-12½	[illegible]	[illegible]	+24°C	01 58	- 3:28	
		Trans-Zen	- Outside		Kinsey B					

Temp +24.4°C
Focus 12.965

Desk light out of order - bulb OK
light at micrometer not working

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
[illegible]	3 10 W	+7° 18	0-1-2	856	½-1-½ + 2½ A625 haze following 1½ mag.

2 plate holders loaded. need plate.

Fri June 24-25. Cloudy, then hazy, then cloudy, then Thick - Hd

216

Date June 24-25 Friday Mi Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
1616	HD 178798	19049	30 07	I-12	E 103a-O	.008	T 26.1	0125	0315
Focus test	O.T.B.								

Lack of dark night [illegible] [illegible]
[illegible] Dark Gift OK.

Mirr. adg. 12.962

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
0315	2 04	30 00	0	8.0 K_5	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ Add comp. for large offset beyond hour to pad of Nebr. Finger pads obscured by dew. Motion R.O. by hand fast on stat. off. 1 pr. K loaded. Plate needed
					Lack of sound etc.

218

Date Saturday June 25 26/49 L Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16161	HD 176230	18 57 2	+8 01	I 12½	E 940	Dot Lines	+24.8	01 15	01 41	1

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Comp	REMARKS
5-	9 30	21 06	2	8.63 Ho	1-½-½	
						4 PHo located

220

Date [illegible] M. - Mc. Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16162	MD [illegible]	[illegible]	[illegible]	T. V.	F 103 a O	.008	+29.0C	2-01	2353
16163	[illegible]	[illegible]	[illegible]	"	"	"	+29.1C	2357	0 [illegible]
16164	[illegible]	15 [illegible]	76 36	"	"	"	[illegible]C	[illegible]	1 40
16165	[illegible]	18 12 6	77 04	"	"	"	[illegible]C	1 -9	2 [illegible]
16166	[illegible]	19 [illegible]	30 [illegible]	"	"	"	[illegible]C	2 53	3 05
	Terre [illegible]			Outside	Kodak	Dew			

Nov. 12-13, 1962

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
[illegible]	[illegible]	[illegible]	0	[illegible]	½ - ½ - ½ no comparison [illegible] BG 25
[illegible]	[illegible]	[illegible]	0	[illegible]	½ - ½ - ½ [illegible]
[illegible]	[illegible]	[illegible]	0-1	[illegible]	½ - ½ [illegible]
[illegible]	[illegible]	[illegible]	1-0	[illegible]	½ - ½ - ½ [illegible]
[illegible]	[illegible]	[illegible]	1-0	[illegible]	½ - ½ - ½ [illegible]
					4/22
					3 p.h. +4.

Date Monday June 27/28-49 S-Ma-L.G. Julian Day

Plate No.	Object	R.A. 1900/50	Declination 1900/50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16167	N.G.C. 5904	15 16·0	+2 16	Newt.	E-103a-O			21 24	21 25	X
16168	" 5024	13 10·5	+18 26	"	"			21 29	21 30	2
16169	" 4147	12 07·6	+18 49	"	"			21 34	21 42	C
16170	" 6229	16 45·6	+47 37	"	"			21 49	21 51	C
16171	" 6229	16 45·6	+47 37	"	"			21 54	22 06	
16172	" 6205	16 39·9	+36 33	"	"			22 13	22 14	
16173	" 6205	16 39·9	+36 33	"	"			22 16	22 18	
16174	" 5634	14 27·0	-5 45	"	"			22 31	22 43	
16175	" 5897	15 14·6	-20 45	"	"			22 48	22 56	
16176	" 6259	16 54·5	-04 02	"	"			23 [illegible]	23 02	
16177	" 6205	16 44·6	-1 52	"	"			23 10	23 11	
16178	" 6334	19 51·3	+18 38	"	"			23 15	23 17	
16179	" 6333	17 16·2	-18 27	"	"			23 23	23 29	
16180	IC 1276	18 07·5	-07 15	"	"			23 36	23 56	
16181	N.G.C. 6093	16 14·1	-22 52	"	"			00 09	00 13	
16182	" 6235	16 [illegible]	-22 01	"	"			00 16	00 32	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 25	15 W	+2 17			Focused on β Librae
21 35	25 W	+18 27			
21 45	40 W	+18 52			
21 55	49 E	+47 38	Poorish		20 sec. "δ"-trail
22 06	33 E	+47 38			
22 14	22 E	+36 37	fair		
22 [illegible]	18 E	36 37			Kapteyn area 61. sequence! (22 20 to 0 33 E)
22 [illegible]	22 W	-5 46			Focused on α² Librae
22 [illegible]	47 W	-20 48			
23 [illegible]	13 W	-04 02			Kapteyn area 119 2' (23 05 to 23 30 E)
23 [illegible]	32 W				
23 [illegible]	29 E				
23 [illegible]	19 W	-18 28			
23 [illegible]	05 E	-7 12			20 Sec "δ"-trail Refocussed on η Ophiuchi
0 [illegible]	05 W	-22 49			
0 [illegible]	47 W	-22 04			Kapteyn 133 15' (20 36 to 00 52)

Date Monday June 27/23 -49 S-M-L Gr. (contd) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Exc Angle Emi
16183	N.G.C. 6333	17 16.2	-18 28	Newt	E103a-O			00 55	01 01	
16184	" 6333	17 51.3	+17 37	"	"			01 08	01 10	
16185	" 6779	19 14.6	+30 05	"	"			01 14	01 17	
16186	" 6712	18 50.3	-08 47	"	"			01 22	01 30	
16187	" 6544	18 04.3	-25 01	"	"			01 33	01 49	
16188	6626	18 21.5	-24 54	"	"			01 52	01 55	
16189	6656	18 33.3	-23 58	"	"			01 55	02 00	
16190	6638	18 27.9	-25 32	"	"			02 03	02 13	
16191	6738	11 51.3	+17 38	"	"			02 23	02 25	
16192	7089	21 30.9	-01 03	"	"			02 30	02 31	
16193	6717	18 52.1	-22 47	"	"			02 35	02 51	
16194	" 6712	18 50.3	-08 47	"	"			02 53	03 01	
16195	" 6738	19 51.3	+18 38	"	"			03 05	03 07	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 [illegible]	1 51 W	−18 28			
01 10	0 35 E	+19 37	[illegible]		
01 [illegible]	0 09 W	+30 07			
01 30	0 46 W	−08 44			
01 49	0 52 W	−25 02			20" "6" Tau
01 [illegible]	1 40 W	−24 53			
02 [illegible]	1 33 W	−23 57			} Focussed on } Aquilae.
02 [illegible]	1 52 W	−23 30		10'	
02 25	0 38 W	+18 40		2' 3	
02 31	2 05 W	−22 44		1	
02 51	2 18 W	−8 46		16' 43	
03 01				8' 16	
[illegible]	1 22 W	+15 36		2' 43	

	ME.	MC	SC	MTW	STW
Jun. 28	12	−48·8	−25·9	+04·8	−0ᵐ·1

Date Tuesday June 28-29, 1949-S-Ma-Gr Julian Day

Plate No.	Object	R.A. 1900 50	Declination 1900 50	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16196	NGC 5904	15 16·0	+2 16	Newt.	E 103a-O			21 30[12]	21 32	
16197	" 5024	13 10·5	+18 26	"	"			21 37[06]	21 39	
16198	" 4147	12 07·6	+18 49	"	"			21 43	21 51	
16199	" 6229	16 45·6	+47 37	"	"			21 58	22 00	
16200	" 6229	16 45·6	+47 37	"	"			22 02[15]	22 14	
16201	" 6205	16 39·9	+36 33	"	"			2221[05]	22 23	
16202	" 6254	16 54·5	-4 02	"	"			22 33[05]	22 35	
16203	" 6218	16 44·6	-1 52	"	"			22 39	22 41	
16204	" 6779	19 14·6	+30 05	"	"			22 55	23 01	
16205	" 6838	19 51·3	+18 38	"	"			23 01[05]	23 12	
16206	" 6366	17 25·1	-5 02	"	"			23 18[05]	23 28	
16207	" 6093	16 14·1	-22 52	"	"			23 35[05]	23 43	
16208	" 6535	18 01·3	-0 18	"	"			23 47	00 11	
16209	" 6838	19 51·3	+18 38	"	"			00 15[05]	00 21	
16210	" 6712	18 50·3	-8 47	"	"			00 28[20]	00 44	
16211	" 6838	19 51·3	+18 38	"	"			00 52[15]	00 56	

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21 32	0 22W	+2 20	poor		Focused on β Librae
21 39			"		
21 51	3 53W	+18 59	better		
22 01	0 35E	+47 40	not good		
22 14	0 22E	+47 40	"		
22 23	0 07E	+36 36			Focused on d^2 Librae
22 35	0 10E	- 3 58			
22 41	0 07W	- 1 47			
23 01	2 43E	+30 10			Numbered 161203 and 161204
23 10	2 29E	+18 44			
23 21	0 14W	+5 02			
23 32	1 39W	-22 47			
00 11	0 20W	- 0 14	Seeing better		
00 21	1 20E	+12 44			Focused on η Serpentis
00 44	0 04W	- 8 44			Heavy ridge
00 56	0 45E	+18 42			

Cont'd

Date Tuesday June 28-29, 1949 S-Ma-Gr Julian Day

Plate No.	Object	R.A. 1900.0	Declination 1900.0	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16212	NGC 6626	18 21.5	-24 54	Newt.	E 103a-O			01 43[30]	01 [illegible]	1 10 W
16213	" 6656	18 33.3	-23 58	"	"			01 24[45]	01 30	1 27 W
16214	" 6837	19 51.3	+18 38	"	"			01 34[35]	01 40	0 50 W
16215	" 7089	21 30.9	-01 03	"	"			01 46[15]	01 50	3 5 E

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
01 21	1 10 W	+ 24 50	poor		
01 30	1 08 W	-23 54	better		
01 40	1 00 W	+18 42	poor		Filling in solid.
01 50	1 30 E	- 0 59	"		Very poor night Took the duration we could get - not the ones we wanted most

230

Date Wed. June 29-30, 1949 S-Ma-Gr Julian Day

Plate No.	Object	R.A. 1900.0	Declination 1900.0	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Par. Angle Incl.
16216	NGC 6254	16 54.5	-4 02	Newt.	E 103a0			23 22.45	23 25	4W
16217	" 6218	16 44.6	-1 52	"	"			23 29.05	23 31	1.00W
16218	" 6838	19 51.3	+18 38	"	"			23 36.05	23 40	1.55E
16219	" 6779	19 14.6	+30 05	"	"			23 46.40	23 50	1.10E
16220	" 6093	16 14.1	-22 52	"	"			23 56.50	00 02	2.03W
16221	" 6235	16 50.4	-22 06	"	"			00 07.40	00 19.15	1.43W
16222	" 6712	18 50.3	-8 47	"	"			00 25.00	00 33	1.03E
16223	" 6838	19 51.3	+18 38	"	"			00 43.35	00 49	1.49E
16224	IC 1276	18 07.5	-7 15	"	"			00 55.00	01 15	1.10W
16225	NGC 6535	18 01.3	-0 18	"	"			01 20.00	01 40	.4
16226	" 6626	18 21.5	-24 54	"	"			01 43.50	01 49	.8W
16227	" 6656	18 33.3	-23 58	"	"			01 53.33	01 56	.7W
16228	" 6838	19 51.3	+18 38	"	"			02 01.05	02 07	1.E
16229	" 7089	21 30.9	-01 03	"	"			02 12.45	02 13	.1E
16230	" 6981	20 50.7	-12 44	"	"			02 18.00	02 34	.7E
16231	" 6981	20 50.7	-12 44	"	"			02 36.45	02 54	.7E

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
23 25	0 46W	- 3 58			← Focussed on β Ophiuchi
23 31	1 00W	- 1 48			
23 40	1 58E	+16 42			
23 50	1 10E	+30 09			
00 02	2 03W	-22 47			
0	1 43W	-22 04			Guide star fading at 7 minutes — appr. cut off last
00	0 03E	-08 43			Focussed on η Serpentis
00	0 48E	+18 42			Dr. Cuffey of Indiana guiding.
01	1 20W	- 07 14			
01	2 52W	- 0 14			Very thick Haze
01	1 43W	- 4 49			Fog
1	1 33W	-23 52			
01	0 30W	+18 47	Steady		
01	1 02E	- 0 58			
02	0 38E	-12 40			Dr. [illegible] guiding
02	1 18W	-12 40			

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Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16232	HD 133482	15 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2052	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2237	[illegible]
16234	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23.1	[illegible]	0046
16235	HD 193650	19 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21.2	0051	0129
16236	[illegible] 19081	19 53 2	29 33	[illegible]	[illegible]	[illegible]	29.2	0137	0241
[illegible]	AC 11430	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	31.1	[illegible]	[illegible]
[illegible]									
D.T.B.									

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	[illegible] 43 W	24 38	0	[illegible]	1-1-1	1825
	[illegible]	[illegible]	[illegible]	0.50	1-1-1	
	1 23 W	27 01	0	[illegible]	½ - ½ - ½	
	0 45 W	30 09	0	[illegible]	½ - ½ - ½	
	1 05 W	29 41	0-1	[illegible]	½ - ½ - ½	
	1 01 W	[illegible]	0-1	[illegible]	½ - ½ - ½	

1 P ½ Guided

Pilot - ended.

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Date Saturday, July 2/3, 1949 Wm- Gr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16237	HD 157291	17 17·5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16238	" 171164	18 28·1	+28 48	"	"	"	+28·6	00 15	01 49
16239	" 191945	20 07·3	+28 52	"	"	"	+28·4	01 54	02 54
16240	" 201490	21 04·9	+29 58	"	"	"	+28·2	02 57	03 49
	Focus test			(outside the base)					

ADJUSTED ARC [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
[illegible]	1 14 W	+24°00'	0	9.2 H.D.	[illegible]	[illegible]
1:41	1 45 W	+28 50	0+	9.5? K_2	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
2:—	1 11 W	+29 ?7	0	8.9? K_2	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"
3:11	2 29 W	+30 03	0	8.7? G_0	$\frac{1}{2}$-$\frac{1}{2}$-$\frac{1}{2}$	"

1 P.H. loaded + 8.

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Date [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16741	M2	21 29.2	-0 49	I-12	103a-0	.011	32.1	0107	0143
16742	[illegible]	20 [illegible]	28 24	—	—	—	32.0	0147	[illegible]
16743	20537	21 24.7	-0 56.9				32.0	0257	0333
16744	20527	21 52.7	28 32				32.0	0332	0352
F—7J3									
OTE.									

Mean setting 12.96 =

Record, the gradual [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
[illegible]	0 4 W	30 [illegible]	3-2	[illegible] K_2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Add to [illegible]
[illegible]	1 15 W	33 [illegible]	2	[illegible] K_2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ " 0.2 " [illegible]
[illegible]	0 26 W	26 . 11	2-1	8.4 K_2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Do.
[illegible]	0 21 W	26 [illegible]	2	6.3 K_2	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$ Add to [illegible] Exposure from 2 to 3 steps.

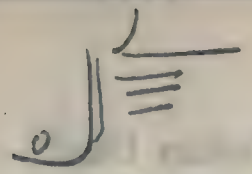
1 P.M. Ended work.

Light reading Hour standing over.

Running the [illegible] to the [illegible] by this [illegible] when the [illegible]

Date Monday, July 4/5, 1949 Wm - Mc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
						SET			
16215	AG 7774	$16^h 38^m.0$	+25° 37′	I - 12	E 103a-O	008	+28·8	21 56	23 46 4
16216	HD 167 782	18 11.7	+25 16	"	"	"	+28.8	23 50	01 10 1
16217	HD 169197	18 21.9	+26 01	"	"	"	+28.5	01 20	03 10 3
	Area Not				Red Not Used				



SETTING & GUIDING NOW REQUIRE 239
2 HANDS - ONE FOR BUTTON, ONE TO FIDDLE
WITH CUBE.

Overcast, clearing 2100-2130 FOCUS 12.963

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	1h 40	+25° 30'	0	9.4 DDO	½-½-½	AG 25 SOME HAZE
	1 30 W	+25° 47	0	8.91 KO	½-½2	" !
	2 21 W	+26 30	0	triple 9.6 KO	½ 22	" !

2 p.b. hooded plate needed.

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Date [illegible] Julian Day [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16248 F	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01 22	[illegible]
Brown Dot	O.T.B.								

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
		—	—	8P K. 2	Beautiful Nebulosity,
					and S W + NE Loops. Planetary
					obliquely extended star + Companion.
					1 P.H. Evaluated Obscured.

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Date July 6/7 Wednesday 1949 Mo- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Sun Angle Incl
1124 T	[illegible]	16 17·4	+29 13	I - 0½	103a-D	005	22·2	21 37	22 51	
Focus I = 1				D.T.B.						

Form 12-93

STW not To be sent

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	14h	+29° 05	1½	7.0!	G5 ½-½-½ clouds - thick - clearing!
					+-2½ Check pointing every few exposures
					4 P.H. Loaded spectrograph plate with 8 I.S.
					Ran plate 1st Night

Date Friday July 8-9, 1949 GR - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16249	HD 136274	15 14.7	+26 04	I-12½	E 103aO	.008	+25.8	20 54	21 54	1 27
16250	" 150889	16 38.8	+26 02	"	"	"	+25 8	22 30	23 00	1 18
16251	" 162901	17 48.3	+25 00	"	"	"	+25.8	23 03	24 05	1 05
	Focus test	OTB.								

Tours 12.964 2+5

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
21 54	1 27W	+25 53	0-1	8.6?	G_0	½-½-½	AG 25 Haze & light clouds
23 03	1 08W	+25 58	0-1	8.0?	K_0	½-½-½	" Forgot to open P.H. & delayed 30 m
24 15	1 05W	+24 59	0-1	8.7?	K_0	½-½-½	" Haze & light clouds (considerable during last 20 min)

Exp. adjusted as clouds moved over sky. Closing up!

4 P.H. loaded +5

Date Sunday July 10-11 1949 M.-E. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16252	HD [illegible]	15 41.4	+28 07	I-12	E. 0°300	.005	+22.4	2153	2217	0 41
16253	HD 149567	16 [illegible]3	+26 04	"	"	"	22.2	2131	2213	
16254	AG [illegible]	17 09.3	+24 39	"	"	"	22.2	2217	2337	
16255	HD 170132	18 25.9	+24 36	"	"	"	21.5	2340	0028	
16256	AG 10733	19 [illegible]8	29 27	"	"	"	21.0	0040	154	
16257	HD 198198	20 43.6	29 16	"	"	"	+21.7	304	322	
16258	HD 206391	20 58.1	27 24	"	"	"	+21.7	507	527	
		Probably [illegible]			Outside Hour [illegible]					

Mirr set 12-962

Ending Time P.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 41 W	25 37	1	8.5	G_0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Obl 0.2 g. for Lge. 1E 25
	0 41 W	25 56	0	8.7	K_0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Do.
	1 25 W	29 33	0-1	9.5	K_0	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Do.
	0 59 W	26 36	1	8.9	G_5	$\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$ Do. fogged in development Gr.
	0 59 W	29 41	1-0	9.2	G_0	$\frac{1}{2}\frac{1}{2}\frac{1}{2}$ Do "
	1 10 W	29 37	0-1	9.1	KO	$\frac{1}{2}\frac{1}{2}\frac{1}{2}$ Do
	1 [illegible] W	31 37	0-1	8.12	GO	$\frac{1}{2}\frac{1}{2}\frac{1}{2}$ H/2 Do

Headlight settings west.
2 RH. loaded - plate in each

Date Saturday July 16-17 N. Mo. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16259	HD 156966	+17 15	+27 23	I-12½	103a-O	0.08	27.0	22 19	[illegible]	[illegible]
16260	166730	18 06.9	+27 57	"	"	"	27.0	22 52	00 01 4	1.13
16261	AG 9659	19 06.6	+28 11	"	"	"	26.9	00 06	00 50 2	1.04
	Focus Test						O.T.B.			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	C 43 W	+27 22	1	8·5 Mo	½-½-½ } S.T 5.0 allowed 1·6 mag for mirror
	1 13 W	+27 58	1	9·4? Mo	½-½-½ } " 8.0 " ob. 2.4 for haze
	1 04 W	+28 15	2	9·5? Go	½-½½ } S.T 2·5 Moon was 1 by clouds - spreading over
					4/2½ } S.T 7·5 sky - much haze. allow 2·6 - fair -
					mid from south cloudy. Solid over
					There was a good deal of scattered light - it was
					probably due to the haze on mirror. I.S. hours.
					4 P.H. loaded in fig. Box hour 7 into L.T.
					Mon. July 13th. Cloudy at sunset, turning
					overcast by abt. 3200

Date Tues Jul 19/20 Pm - Mi 1917 Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16262	HD 197647						27.8			
16263										
16264										
16265							27.9			
16266	AG 10154	19 31.9					28.0	0006		
16267	HD 194071	20 18.5	27 55				28.0	0351	0411	
16268										
16269							27.9	0210		
16270		18.1								
16271			21 26				28.0	0312		
16272		22 17.5	22				28.0	0351		
Tous Nuages										
OTB										

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS	
	29° W	24 52	0+	8.9	G5	1-1-1	AC25	
	38° W	28 15	0	8.2	G3	1-1-1	"	
	38° W	27 57	0+	8.7	G0	1-1-1		numbered 1624
	42° W	27 13	0+	8.8	G2	1-1-1	" Thermal double on star on BD	7.5
	0 47 W	26 33	1-2	9.3	K0	1-½-½		2.5
	0 28 W	28 03	2-3	8.5	K0	½-½-½		7.5
	0 05 W	27 15	2-1	9.3	K0	½-½-½		3.5
	0 52 W	27 00	1-0	9.1	G5	½-½-½		3.5
	0 21 W	30 30	1-0	8.4	K2	½-½-½		2.5
	0 32 W	27 52	1-0	8.7	G0	½-½-½		7.5
	0 13 W	25 30	2	7.5	K2	½-½-½		2.5
							2 P.H. + 4	
							1 - blank strip on 22 degree circle.	

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Date Wednesday July 23-24, 1912 Ma - Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16272	A.D. 13970	17 53	+27 51	4-12½	103a-J	.003	22.3	22 23	23 21	3
16274	A.M. 9516	18 [illegible]	+29 09	"	"	"	22.2	23 25	[illegible]	4
				Duration			Mean			

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
8 21	1 12 W	+27 50	0	2.0 I G5	½-½-½ Tiny [illegible] N-W. Cut
		+27 13	0-1	8? k5	½-½ [illegible]
					[illegible]
					Plate on P.H. #1 was spotted through [illegible]
					4 P.H. Loaded 1 Plate in box

Date Thursday July 21/22, 1949 Wm- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
						SET				
16 275	HD 166914	18 07·7	+25 21	I-12	E103a-O	cc 3	+25·2	22 41	23 21	1
16 276	AG 9486	18 57·3	+26 15	"	"	"	+25·2	23 25	00 10	
16 277	HD 185656	19 19 57·7	+25 64	"	"	"	+25·2	00 24	00 48	
		Focus test								

CLOUDY, BEGINNING TO CLEAR ~21

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.				REMARKS
23 21'	0^{m}53	+25°21'	0	8.34 GO	½-½-½	SET @ 2½	AG 25	Some Haze Exp calculated as −1.8 + 0.2 = −1.6
22 12	0 52 W	+26 19	0	8.98 KO	½-½-½	SET @ 7½	AG25	
[illegible]	0 [illegible]	+25 12	0	?.2? K2	½-	Set ± 2½	"	Thin haze Exp [illegible]

Stopped and looked long enough to set [illegible]

2nd Guide

[illegible] from midnight 12 959

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E S watch
1m fast

Date Friday July 22/32 M.T. Mc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16276	HD 172233	18 17.2	+7 35	I-2	Eastman	.033	+27.0	20 44	21 44
16279	158913	17 26.3	+29 36	"	"	"	27.0	21 45	22 18
16280	164823	17 58.4	2 59	"	"	"	26.7	22 23	23 24
16281	161047	19 13.8	25 11	"	"	"	26.7	23 27	23 55
16282	166223	19 31.0	26 57	"	"	"	26.8	00 00	00 42
16283	Z Herc	17 53.6	13 08	"	"	"	26.3	00 54	01 04
16284	AG 11233	20 10.2	28 39	"	"	"	26.2	01 19	
16285	HD 201606	21 5.7	26 13	"	"	"	26.1	02 40	03
16286	198483	20 45.5	30 16 25 24	"	"	"			

Focus test Outside thro' house

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
21:-	1 05W	27 28	0	Graph. 1.1	G_0	½ - ½ - ½
21:-	0 23W (Corrected)	29 32	1	Graph. 8.7	K_0	½ - ½ - ½
21:-	1 7W	24 59	0+	Graph. 9.2	K_2	½ - ½ - ½
21:-	0 23W	25 16	0+	Graph. 8.6	G_0	½ - ½ - ½
21:-	0 [illegible]	21 06	0-1	Graph. 9.2	K_0	½ - ½ ½
21:-	2 52W	15 07	0	Graph. 7.5	F2	½ ½ ½
1	1 50W	23 38	0	9.7	K0	½ ½ ½
1	1 [illegible]	21 41	0	Graph. 5.0	K2	½ ½ ½
2	1 17W	25 34	0	Graph. 8.4	G5	½ ½ ½
						4-0½

Watch 1m fast

Date ... Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
16287	HD 164923	17 58.9	24 57	7.5"	103a-E		23.3	2207	2253	40m
16288	RE Vulp	19 10.4	22 16	"	"	"	23.2	2300	2345	1m
16289	Z Herc	17 [illegible]	15 09	"	"	"	23.3	2325	0013	35m
16290	AG 10077	19 22.5	21 [illegible]	"	"	"	23.2	2345	0013	1 00
16291	AG 11233	21 19.2	21 24	"	"	"	23.2	0046	0116	1 43
16292	HD 201624	21 05.7	26 13	"	"	"	23.2	0119	0143	2 11
16293	201921	21 24.7	29 50	"	"	"	23.2	0146	0204	
16294	209276	21 50.1	29 07	"	"	"	23.2	0209	0225	
16295	212567	22 10.2	28 11	"	"	"	23.2	0238	0310	
16296	216723	22 [illegible]	27 28	"	"	"	23.2	0313	0347	
16297	219538	23 11.4	31 07	"	"	"	23.1	0330	0350	
16298	HD 1[illegible]	23 13.8	25 23	"	"	"	23.1	0352	0410	
16299	HD 223211	23 42.5	25 01	"	"	"	23.0	0313	0320	

OTB.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
[illegible]	40m W	24 5'	0+	9.2?	K2	1-1-1	
[illegible]	7m E	22 28	0+	8.0	A2	1-1-1	
[illegible]	34m W	15 [illegible]	1	8.0	F2	1-1-1	
[illegible]	1 00W	25 [illegible]	1-0	9A?	F0	½ - ½ - ½	
[illegible]	0 43W	28 37	2	9.1	K0	½ - ½ - ½	
[illegible]	0 23W	26 25	2	8.9	K2	½ - ½ - ½	
[illegible]	0 03W	30 02	2	8.6	K0	½ - ½ - ½	
[illegible]	0 34W	24 59	2+	9.1	K0	½ - ½ - ½	
[illegible]	0 [illegible]W	[illegible]	2-1	9.0	K0	½ - ½ - ½	
[illegible]	0 22W	27 42	2+	8.4	G5	½ - ½ - ½	
[illegible]	0 [illegible]W	30 23	2+	[illegible]	K0	½ - ½ - ½	
[illegible]	0 22W	[illegible]	2+	8.8	K0	½ - ½ - ½	
[illegible]	0 2[illegible]W	25 16	3	7.8	K0	½ - ½ - ½	

3 P.M. [illegible] ended

Jul. 25 } MC −1m 30s +2s SC −01.9 MTW −18s STW −0m.1 reset

RESET

260

Date Mar. July 25-26, 1949 Gr-Gu-Mg Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang. End
16300	149241	16 28·9	+27 55	I-25	103a-O	·008	+26·5	20 57	21 [illegible]	
16301	Z Her.	17 5[illegible] 6/4	+15 09	"	"	"	+27·5	22 00	22 22	
16302	RS Vul. 36	19 13·[illegible]	+22 16	"	"	"	+22·6	22 47	23 09	
16303	[illegible]	18 5[illegible]	+26 52	"	"	"	+27·0	23 15	00 21	
16304	Z Her.	17 53 6/4	+15 09	"	"	"	+26·9	00 29	00 55	
16305	RS Vul.	19 13·[illegible]	+22 16	"	"	"	+26·9	01 [illegible]	01 [illegible]	
16306	HP 201651	2[illegible] 03·7	+21 13	"	"	"	+21·4	01 25	01 31	
16307	[illegible]	2[illegible] 05·7	+21 13	"	"	"	+21·9	02 32	02 4[illegible]	
	Focus Test						O.T.E.			

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July 25. - Insd. of 25" camera

Focus test O.T.B. for 2 settings of micr.

Focus setting 15.746
" " 15.736
" " 15.766. - OK

temp. -25.1
tilt 23.15

Focus 15.766

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
21	1 21 W	+27 49	2-3	9.1 K_5 1-1-1	fine
22	0 37 W	+15 09	3	8.0 F_2 1-1-1	" " fair
23	0 10 E	+22 21	3	8.0 A_2 1-1-1	" " strong 7.5
00	1 23 W	+21 56	3	9.2 K_0 1-1-1	A 7.25 fine
1	2 50 W	+15 06	3	8.0 F_2 1-1-1	0.2 mag for haze. Sky fair. 7.5
2	2 03 W	+22 22	3	8.0 A_2 1-1-1	" " strong 7.25
3	1 [illegible]	+21 25	3	7.0 [illegible] 1-1-1	0.2 mag for haze. A 7.25 good 7.5
4	2 43 W	+26 25	3	9.0 K_2 1-1-1	0.2 " " " " A 7.25 good 7.5
				10/7	focus setting to widest (sl.) [illegible]

4 P.H Logs filed in office.

4 plates in Box.

	MC	SC	MTW	STW
Jul. 26	+00.s4	-01.s2	-18.s9	+0.m3
			-11.s Reset	+0.m1

262

Date ... 1949 Mc-M. Julian Day ...

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
16308	HD 185260			1-25			+27°	22 32	20 05	
16309	189108			"	"	"		23 18	23 44	
16310	168058	18		"	"	"	29.0	2350	0150	
16311		20 45.5	25 24	"		"	29.0	0055	0133	
16312	" 204539	21 14.2	25 59	"	"	"	29.0	0136	0214	
16313	" 211407	22 11.7	25 45	"	"	"	29.0	0216	0326	
Second Set										
Jan 10.0	O.T.B.									

Temp. +23°C
Barometer 15.93

Poor correction in framing circle

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	3 33 E	+28 23	2			1-1-1	
	0 12 E	+28 32	3			1-1-1	
	2 36 W	+28 04	3			1-1-1	
	0 47 W	25 35	3		G_5	1-1-1	
	0 45 W	26 11	3		K_2	1-1-1	
	1 13 W	26 00	3		G_2	1-1-1	

Just at Regulus R.S. Vulpeculae field
Heavily cloud. Suggest earlier time
as you can keep just clearing in meridian
of P.H. +1

264

Date Wed. July 27-28 Gr = Mc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Ang End
16314	H.D. 184538	19 18.9	25 36/42	I-25	103a-O	.008 M	+30.3	23 39	00 27	00
16315	" 192892	20 12.2	+26 11	"	"	" S	-30.3	00 51	01 31	
16316	" 206455	21 9.7	26 13	"	"	" M	+30.0	02 03	02 45	
	Same Test			Orthochr.						

Cloudy - clearing at 2300 EST. Try increasing micrometer reading + 0.020 on parfocals with graphite of tube in motion

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temp 30.3 7 turns 5.855 + 0.020 = 5.875

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
00 [illegible]	1 00 W	+25 42	1-2-3	7.9	K0	1-1-1
01 [illegible]	1 [illegible] W	+24 18	2-3	8.2	G5	1-1-1
[illegible]	3 10 W	+24 25	1-2-3	3.0	K2	1-1-1

10/7

3 p.h. loaded. plates needed

[illegible]

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Date Thursday July 29/04 Mo - Mc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16317									
16318									
16319									
16320									
16321									

Focus bad — Clouds through hour

Nothing on plates — slit not open

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	1 25W	+28 56	2-1	3.5?	M_0	1-1-1	
	5 52W	+29 31	1	7.5?	G_0	1-1-1	
	0 45W	+27 28	2-3	3.4?	K_0	1-1-1	
	1 30W	+28 45		3.6?	K_0	1-1-1	
	1 04W	30 0		7.7	K0	1-1-1	
	[illegible]	[illegible]		5.6	G5	1-1-1	
	0 48W	26 20		4.9	K2	1-1-1	
	0 31W	25 2	2	6.0	K0	1-1-1	0.2 " "
	0 24W	27 13	2	7.5	K0	1-1-1	0.2 " "
						10/7	
						2 p.h. loaded. +8	

	MC	SC	MTW	STW
Jul. 29	+07.8	+12.2	+05.8	−0.2

Friday July 29/30 Mi-Ma.

clouds mainly clearing at 10:30 but about 2 magnitudes extinction and cirrus clouds passing over head irregularly - wind is N.W. + N.W. wind 12:3

Date July 30/31 Pas - Gr Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
		6 7	+8 43 3	28 18					
1617	AC 927	18 43 3	28 19	525"			29 F	2223	2352
1618	NI 19485	20 21 0	30 15	"	"	"	+25·0	2359	00 35
	7 ocus test - O.T.B.								

Fwd 15.878

Closed door with 4 [illegible] 209
M 12 until 31

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag. 10.4 K		REMARKS
2310	1 14 W	+2 [illegible] 22	0	3 41' [illegible]	1-1-1	A 825 ~~Wrong star~~ too weak 2.5
0035	0 27 W	+30 23	0	SA? 65	1-1	Too weak 7.5? Intermittent clouds after 20 minutes- closing in solid by 0035.

4 P.H. loaded +4

Sun. July 31/49 Closed 30 minutes through dome and closed Sun with "5 ind."

Date July 31/Aug 1 1949 G.C. – L.C **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16319	HD 153224	16 53.0	+29 45	I-25	103a0	Set .008	+23.4	20 51	22 21	
16320	" 171737	18 28.5	+25 25	"	"	"	+23.2	22 24	23 50	
16321	" 189884	19 57.2	+23 54	"	"	"	+23.0	23 53	01 23	
16322	" 204540	21 34.2	+25 31	"	"	"	+23.0	01 28	02 08	
16323	" 213947	22 29.9	+16 05	"	"	"	+23.0	02 13	02 53	
16324	" 222317	23 31.4	+27 41	"	"	"	+23.0	02 57	03 21	
16325	" 111	0 09	+27 43	"	"	"	+23.0	03 25	04 11	
	Near 16321 — Outside									

Watch stopped - 8 sec

Focus 15-760

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Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS		
22 2	1 46 W	+29 40	< 0	8.70	G_0	1-1-1		2.5
22 5	1 40 W	+25 27	< 0	8.3 (?)	G_5	1-1-1	"	½ mag fainter 7.5
22 8	1 44 W	+27 52	< 0	8.5	K_2	1-1-1	"	" 2.5
22 11	1 07 W	-25 42	0	7.6	K2	1-1-1	"	" 7.5
22 14	0 41 W	26 19	0	7.9	K2	1-1-1	"	2.5
22 17	0 5 W	27 37	0	7.4	G0	1-1-1	"	2.5
22 20	0 21 W	27 58	0	8.1	K2	1-1-1	"	2.5
						10/7		7.5

4 plate holders loaded - plates needed.

0110 meteor. ∴ .7 about ... end. 4 tail ... bright ... Mc ... trail ... reading ... Two

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Monday

Date Aug 1/2 Ca - Mc Julian Day

1949

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16326	HD 156079	17 10.4	42 15	I 25"	103a-O		24.2	2123	2309	
16327	180502	19 11.7	38 56	"	"	"	24.2	2316	0016	
16328	199375	20 51.7	27 12	"	"	"	24.2	0019	0055	
16329	201661	21 06.0	26 53	"	"	"	24.2	0053	0306	
16330	212391	22 12.0	29 51	"	"	"	24.2	0269	0300	
16331	222653	22 32.1	30 07	"	"	"		0303		

For 1 Hd

Id 95 OTS

Monday Aug 1 : 1949 Clear 20° centre from Sirius - Betel.

Cloudy 1 x Gr dimensional tube exp.

Wednesday Aug 3 - 4 1949 Hd - Ma cloudy - a few breaks but not

clearing until ~03 00.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	2 22 W	42 10	0	8.6	P	1-1-1 Tau 1576.0 5-1 blended cloud 2.125
	1 27 W		0-1	8.5	EO	1-1-1 A 6.5 Rect from 15.77 7.5
	0 25 W	27 21	2-3	8.1 Graph.	K₀	1-1-1 Allow 2 min for Exp. 2.5
	1 22 W	27 05	2	8.8 Graph.	K₀	1-1-1 Allow 2 min for Exp 7.5
	1 05 W	30 05	1	8.1 Graph.	G₀	1-1-1 L_5 2.5
				8.3 Graph.	G₀	1- Glowing visibly from Rock. Exp 7.5
						Shielded, kicked off exposure.
						1 P.H. Plates needed.

	MC	SC	MTW s	STW m
Aug. 3	-11.8	+03.8	+02.2	-0.0

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Date Tuesday, August 15, 1939 Wm-Ma Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16 332	H2 200331	20 53.1	+27 24	I-25	E 132-O	C-2	+23.3	23 57	00 31	
16 333	210925	22 08.6	+25 26	"	"	"	+25.0	00 34	01 21	
16 334	201373	21 31.6	+28 53	"	"	"	+25.0	01 25	02 45	
16 335	218393	23 02.6	+41 40	"	"	"	+24.9	02 53	03 11	
16 336	223675	23 41.3	+02 56	"	"	"	+25.0	03 29	03 39	
16 337	2315	00 21.9	+25 02	"	"	"	+25.0	03 47	04 23	
	Focus Test						O.T B			

Overcast or Cloudy, becoming clear ~2215

Focus 15.263 + 0.520 = 15.783

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
30	0 07W	+[illegible] 26'	0	E.12	G0	1-1-1	AG25 - double lines? Set 2.5
31	0 14E	+25 40	0-1	7.6?	G5	1-1-1	" variable velocity? Set 7.5
[illegible]	1 41W	+29 06	1	8.6?	G0	1-1-1	[illegible] " - double lines Set 2.5
37	0 44W	+49 54	1	6.8	Ave	1-1-1	6395-6 Be program. Set 7.5
03 39	0 33W	+03 11	1-2	6.9?	Na	1-1-1	had trouble finding * used CT = 1.5 Special star. Set 2.5
04	0 35W	+25 16	1	8.1?	K0	1-1-1	A.G. 25 Set 7.0
						10/7	Set 10.0

2 P.H. Loaded in refrig. 8 plates in Box.

	MC	SC	MTW	STW
Aug. 5	-15^s.0	+05^s.7	+07^s.0	+0^m.1

Date Friday, August 5-6 1926 McJulian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16335	HD 156074	17 10·4	+42 15	[illegible]	[illegible]	[illegible]	+26·8	20 58	[illegible]	
	Focus test									
16339	HD 195563	20 54.1	30 00	"	"	"	+27.4	01 56	12	
16340	213025	22 23.5	24 31	"	"	"	+26.8	02 40	03 32	
16341	8747 8747	1 21.2	26 43	"	"	"	+25.8	03 42		
	Test Outside Mount									

Set focus 15.813.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
	4 2 15	+42 09	0	5.5 R_1	1-1-1 Normal slit. Checked field 4 times. Disc 2.5
		2 T 73			
					Set focus at 15.804
	2 12 4	30 10	0	7.4 exp 40	1-1-1 Ag 25 } light clouds ca 15 comp. completely overlap. 2.5
		29 51	1-0	7.8 exp 40	1-1-1 " } Neither plate good for radial vel. 0
	1 8	26 58	1-0	7.9 exp 40	1-1-1 " 2.5
					10/8
					3 p.h. loaded +
					Field lights very right, R. Stars 7th field more 4 edge from cross bars while binding plate in spotting ran on one more. 4 times

Date Saturday, August 6/7, 1949 Wm - M. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16342	HD 190228	19 [illegible]	[illegible]	I - 2	[illegible]	[illegible]	-1.5·4	2312	[illegible]
16343	HD 197514	20 [illegible]	[illegible]	"	"	"	26·5	0001	0141
16346	HD 213178	22 [illegible]	[illegible]	"	"	"	26·4	0147	0227
16345	HD 213353	23 026	49 [illegible]	"	"	"	26·4	0235	0249
16346	HD [illegible]	[illegible]	[illegible]	"	"	"	26·4	0255	0345
16347	HD [illegible]	[illegible]	219	25 02	"	"	26·4	0349	0439
Focus									
Ref	O.T.B. Jet 9.0								

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SET FOCUS 15.787+.020: 15.807

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0° 25	+28° 11'	2	7.72 G5	1-1-1	AG25 Narrow Window Set 2.5
	1 45W	+ 27 03	2-3	9.3 M_5	1-1-1	" " 7.5 fine
	0 45W	+ 28 45	2-3	8.6 K_0	1-1-1	AG25
	0 29W	+ 49 52	3-2	6.8	1-1-1	Bapog. " 7.5
	0 55W	+ 30 02	3-2	8.3 F_5	1-1-1	AG25
	1 [illegible] N	+ 25 17	3	8.2 K_0	1-1-1	" fine 5.5

a P.H. Guide Plate used.

B.A plate gear must be shifted every always after working the R.A. setting circle driving the eye piece shaft.

Date Sunday Aug 7/8 1915 G.M.T. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16348	H.D. 199048	17 32.3	25 41	T-25	E 136.0	1.4	+28.0	20 47	21 25	1
16349	" 196181	18 04.4	29 39	"	"	"	+28.0	21 28	22 34	1
16350	" 182617	19 20.4	28 22	"	"	"	+28.0	22 42	23 24	E
16351	" 199043	19 57.5	29 56	"	"	"	+28.0	23 32	00 42	E
16352	" 203288	21 16.2	+25 ~~44~~ 49	"	"	"	+28.0	00 45	01 45	
16353	" 214023	22 30.4	+30 17	"	"	"	+28.0	01 57	02 53	
16354	" 219800	23 13.6	+27 04	"	"	"	+28.0	02 56	03 22	
16355	" 224882	23 56.4	+30 11	"	"	"	+28.0	03 24	04 24	
	Focus Test		O.T.B.		10/8					

Focus set at 15.805

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
	0 36 W	25 38	2	8.18 K_0	1-1-1	Set 2.5 AG 25
22 39	1 15 W	29 39	2	8.3? G_5	1-1-1	Set 7.5 " "
23 24	0 49 W	28 28	2	8.22 K_0	1-1-1	Set 2.5 " "
00 42	1 31 W	30 04	2	8.8? K_0	1-1-1	Set 7.5 " "
01 45	1 15 W	+26 03	2-3	8.65 K_5	1-1-1	Set 2.5 " " Light cloud over most of sky at 0357. Focus reset at 15.833. (i.e. 15.813 + 0.020)
02 53	1 09 W	+30 32	2	8.16 K_2	1-1-1	Set 7.5 " " Still some light cloud
03 22	0 54 W	+27 17	2-3	7.91 K_0	1-1-1	Set 2.5 " " " " " " "
04 29	1 13 W	+30 28	2	8.40 G_0	1-1-1	Set 7.5 " " " " " "

4 P.H. loaded + 8 in Sup

	MC	SC	MTW	STW
Aug. 8	−20°0	+09°9	−02°5	+0°1

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Date Monday Aug 8-9, 1949 Hd-Mi Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16356	MW 292 HD 168957	18 17.3	25 01	I-25	E103a0	normal 008	+31.0	20 36	20 56	1
16357	HD 164042	17 54.2	27 23	"	"	short 008	+31.0	21 00	21 38	1
16358	HD 201626	21 05.7	26 13	"	"	"	+31.0	22 17	00 15	
16359	HD 201990	21 04.9	+29 58	"	"	"	+31.0	00 18	01 02	
16360	HD 204500	21 58.8	+29 17	"	"	"	+31.0	01 05	01 59	
16361	HD 215393	23 02.6	+19 40	"	"	"	+31.0	02 08	02 22	
16362	HD 220776	23 17.5	+19 53	"	"	"	+30.6	0227	0421	
Focus Test	O.T.B. Ld 25 10h									

Set focus.

15.8.72

Ending Time B.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
20 52	E 33m	35 01	1	6.9 B_{5e}	1-1-1 Bx Set 2.5
21 55	W 38m	27 24	2	8.39 K_2	1-1-1 AG " 7.5
22 5	0 01 E.	26 25	2	8.85 ?	1-1-1 " " 2.5 Trouble with dec Quick mo.
1	0 47W	30 10	2-3	Rough 8.7 G_0	1-1-1 AG 25 Lt 7.5
1 51	0 50W	29 28	2-3	Rough 8.9 K_5	1-1-1 AG 25 Light cloud Lt 2.5
2 52	0 1:W.	+29 53	3-2	6.8	1-1-1 Be Prog. Allow 5 mins for cloud Lt 7.5
3 1	2 0:W	+29 06	3-2	9.1 G_5	1-1-1 AG 25 (Light cloud) Lt 2.5

4 PH. + A

Date Tuesday August 9-10, 1949 L-Su/Mc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
16363	HD 154043	16 58.0	+25.10	I-12½	E103a-O	.035	+32.6	20.21	20 51	
16364	" 156774	17 14.4	+27 03	"	"	"	+32.5	20 53	21 23	
16365	" 167132	18 08.8	+25 37	"	"	"	+32.5	21 27	21 53	
16366	" 169245	18 18.7	26 10	"	"	"	+32.5	21 56	22 26	
16367	" 184719	19 30.7	28 56	"	"	"	+32.?	22 31	22 55	
16368	" 187460	19 45.0	+29 38	"	"	"	+32.0	23 05	23 39	
16369	AG 11579	20 35.2	+26 17	"	"	"	+32.0	23 45	00 37	
~~16370~~ 16369A	HD 203521	21 11.3	+27 35	"	"	"	+32.0	00 51		
16369F	Focus test			Outside through base						

Tues. Aug. 9. Changed to 12½ Camera
Focus set 12.970 Tilt 20.25

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
20 51	0 47 W	+25.07	0	8.70	K_2 ½-½-½	AG 25	set 2.5
21 23	1 01 W	+27 00	0	8.72	K_0 ½-½-½		" 7.5
21 53	0 39 W	+25 36	1-2	9.0?	K_0 ½-½-½	"	" 2.5
22 26	1 01 W	+26 12	2	9.3?	G. ½-½-½	"	" 7.5
22 55	0 18 W	29 01	2	9.1?	K_2 ½-½ ½	"	" 2.5
23 ?	0 47 W	29 45	2	9.1?	K_0 ½-½-½	"	" 7.5
1 37	0 59 W	26 27	2	9.7?	K_0 ½-½-½	light clouds from NW 0020 "	" 2.5
		27 47	2	9.2 tripled	K_2 ½		" 7.5

Heavy clouds coming up in N.W. at 2:55 - Sold by 3:20
4/2½ set 5.0+

4 plate holders loaded - [illegible]

	MC	SC	MTW	STW
Aug. 10	−23.0	+11.5	+0.^{s}02	+0.^{m}2
12	−26.6	+12.8	−02.^{s}6	+0.^{m}1

Date ..... Julian Day .....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16370	[illegible] Sea Z	18 58.9	−64 16	I-12	E 103-0	008	+79.2C	20 15	20 35
16371	"	"	"	"	"	"	29.2	20 35	21 15
16372	HD 170737	18 25.9	+26 36	"	"	"	27.2	21 34	21 58
16373	AG 9585	19 03.5	+28 34	"	"	"	29.0	22 02	23 33
16374	AG 19301	20 09	+29 48	"	"	"	29.2	23 2	[illegible]
16375	AG 10838	20 1.8	+29 26	"	"	"	29 0	00 33	01 11
16376	AG 10837	20 1.8	+29 36	"	"	"	29 0	01 18	02 [illegible]
16377	HD 213177	22 24.5	+29 18	"	"	"	29.0	02 28	[illegible]
16378	HD 222390	23 35.0	26 59	"	"	"	29.0	03 07	03 15
16379	HD 222391	23 35.0	26 17	"	"	"	29.0	03 18	03 34
16380	HD 3590	0 33.7	25 47	"	"	"	29.0	03 38	03 49
16381	HD 4686	0 43.8	28 11	"	"	"	29.0	03 51	04 05

Focus Just Outside through Limit

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS	
	12E	-4 15	0		½ ½ ½		
	3 15?	"	1	"	1-1-1		
	W	+24 38	1	8.75	1-1-1	AGC5	7.5
		+28 39	1-0	(9.60)	1-1-1	"	2.5
	10W	+29 37	0-1-2	3.3	1-1½½	"	2.5
	W	+29 36	2	9.7	½ ½ ½	"	2.5
	6W	+29 36	0-1-2	5.6	½ ½ ½	" 03mm pix haze	7.5
	3W	+29 33	1	5.0	½-½-½	"	2.5
0	46W	26 14	0	7.3	½-½½	"	7.5
1	05W	26 32	0	5.2	½ ½½	"	2.5
0	20W	26 02	0	7.5	½½½	"	7.5
0	45W	28 25	0	5.5	½½-½	"	2.5
					4-3		7.5
					1 plate holder loaded +8		

Date Sat Aug 12/19 Ba 12 1947 Eu

Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
11794	Nova Sct	18 50.9	-04 16	I-12	103 a-O	.008	28.1	21 23	22 12
11795	AE10077	17 22.3	+25 13	"	"	"	"	"	"
	Focus Test		OTB.						

75 [illegible] showed [illegible] 24"
2 and 5"

Micr. out 12.9.71

* ?

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
12	30 ~~E~~ W	-4 12?	0-2	?	½-1-1	Haziq upl owards et. let 2.5
				9.4 E0		~~Fair~~ Cloudy 1 2 2 12 7.0
					4/3	at 7.5
					4 P.H. + 4	

Date Sunday Aug 14/13 1949 Ma-Mi Julian Day
Ba

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16383	Nova Scuti	18 50·9	-04 16	I-12	1030·0	008	+29·0	20 14	21 14
16384	"	"	"	"	"	"	+29·0	21 15	21 45
16385	H.D. 174104	18 43·8	+28 37	"	"	"	+29·1	22 00	22 38
16386	188259	19 49·2	+26 15	"	"	"	+29·0	22 42	23 08
16387	194510	20 20·9	+25 24	"	"	"	+29·0	23 12	23 50
16388	202365	21 10·2	+27 45	"	"	"	+29·0	23 55	00 45
16389	209558	22 01·3	+27 29	"	"	"	+29·0	00 49	01 17
16390	214202	22 31·6	+24 14	"	"	"	+29·0	01 19	01 55
16391	219 418	23 10·5	+25 08	"	"	"	+29·0	01 59	02 13
16392	221417	23 27·3	+26 00	"	"	"	+29·0	02 16	02 50
16393	1406	00 13·1	+29 49	"	"	"	+29·0	0303	0333
16394	4797	00 11·9	+27 50	"	"	"	+29·0	0336	0358
16395	7826	01 09·3	+25 54	"	"	"	+29·0	0401	0439
Focus Test	O.T.B	Set 7.5							

18 Visitors Sunday afternoon - shown sunspots (lots of them). Ma

Four set 12·980

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watch wound 23:45 E.S.T.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS	
21 14	0 24 E	-4 18	0-1-2	?	?	½-1-½	think it is getting fainter.	Set 2·5
21 35	0 07 W	-4 18	2	"	"	½-½-½		Set 7·5
22 35	1 08 W	+28 38	2	9·2?	G_5	½-½-½	light clouds & haze blew dec guiding & settling fuses.	Set 2·5
23 08	0 32 W	+26 21	2-3	8·7?	K_0	½-½-½	more fuses needed! Iron are difficult to strike.	Set 7·5
23 50	0 42 W	+25 32	3-2-1	9·2?	G_5	½-½-½		Set 2·5
00 45	0 51 W	27 55	2-1	9·4?	K_0	½-½-½		Set 7·5
01 1	0 30 W	27 41	0-1-2	Good 8·6	G_0	½-½-½		Set 2·5
01 35	0 37 W	29 27	1	Good 9·0	K_0	½-½-½		" 7·5
01 11	0 17 W	25 22	1	Good 8·0	K_0	½-½-½		" 2·5
02 5	0 47 W	26 16	1-0	Good 9·0	G_5	½-½-½		" 7·5
2330	0 34 W	30 05	2-	Good 9·0	K_0	½-½-½		" 2·5
02 8	0 27 W	28 04	2-1	Good 8·6	K_0	½-½-½		" 7·5
02 37	0 47 W	26 08	2	Good 9·4	K_0	½-½-½		2·5
						4-3		

4 P.H. -9.

Date Monday Aug 15/16 1949 L-Mc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16396	Nova Scuti	18 50.9	-04 16	I-12½	E103a-O	5cm 008	26.7	20 54	22 26 3
16397	HD. 187565	19 45.5	29 08	"	"	"	26.7	22 33	23 15 3
16398	AG 11546	20 53.4	29 50	"	"	"	26.7	23 19	23 57 4
16399	HD 198238	20 43.9	26 02	"	"	"	26.7	00 02	00 40 1
16400	HD 209543	21 59.1	26 28	"	"	"	26.5	00 54	02 00
16401	HD 209145	22 0.6	29 24	"	"	"	26.5	02 05	02 49
16402	H.D. 664	0 9.1	28 01	"	"	"	26.4	02 [illegible]	03 41
16403	H.D. 5585	0 52.5	28 59	"	"	"	26.4	03 45	04 25

Focus test - Outside through [illegible]

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.			REMARKS
	0 52 W	-04 17	1	8.7? Vis.	½-½-½	Sct 2.5	
	0 47 W	+29 15	1	93? Go	½-½-½	" 7.5	AG 25
	0 41 W	30 00	1	9.1? Go	½-½-½	" 2.5	AG 25
	1 23 W	26 13	1-0	graph 9.3 KS	½-½-½	" 7.5	AG 25
	1 19 W	2[illegible] 13	0-	graph 9.5 KO	½ ½ ½	2.5	AG 25
	2 09 W	29 36	0	graph 96 G5	½ ½ ½	" 7.5	AG 25
	0 53 W	28 11	0	graph 9.2 GO	½ ½ ½	2.5	AG 25
	0 49 W	29 15	0	graph 9.0 KO	½ ½ ½	7.5	AG 25 focus overlaps this exposure
						5.0	

plate in holder #1 believed to be spotted without ground glass. It was.

4 plate holders loaded +8.

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Date Tues Aug 16-17 1947 Ed- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.	Hour Angle End
1640 3/4	Nova Lentis	18 50 9	-04 16	I-12	Eastman 40	0.03"	+26.1	20 20	22 16 2	4
					Focus Test			OTB		

Focus 12.952.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	REMARKS
22h 2	W 46m	−4 17	1	8.8(cat) ½, ½, ½	Clouds most of Time. Called 21 Set 2.5 10
				4/3	Set 7.5

3 PH loaded but are not used for N Sec.

	MC	SC	MTW	STW
Aug. 17	−36°0	+17°6	+21°0	+0m5

296

Date Wednesday August 17-11 Mc Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16404	HD 249	00 02 2	+25 54	I-13	103a-O	.008"	+22·5	0242	0300 3
16405	AG 37	00 06·2	+29 54	"	"	"	+22·4	0315	0343 3
Focus Test	9-5 OJB.								

Observing by short scan. Format 12-980

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
03:..	E 23W	26 10	3	5.2	K_0 ½-½-½	Exposure to Wash's photographic blue M_2
03:3	I 34W	30 09	3-2	9.2	G_5 ½-½-½	Photographic exposure on W.
					4/3	Closed down.

4 PM +8.

	MC	SC	MTW	STW
Aug. 18	−37.s4	+20.s2	+22.s8	+0.m1 (next)

298

Date Tuesday August 16-17, 1949 HL-MJ Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.
16406	Nova Sculi	18 50.9	-4 16	I-12	E103a-O	008	23?	20 ?	22 13
16407	α2 10133	19 31.0	+28 52	"	"	"	23.3	22 20	23 20
16408	HD195667	20 27.6	-26 42	"	"	"	23.2	23 24	00 16
16409	HD 195712	20 27.8	+26 44	"	"	"	23.2	00 18	01 28
16410	HD 195790	20 28.3	-27 10	"	"	"	23.0	01 33	02 19
16411	HD 218153	23 0.6	25 29	"	"	"	23.0	02 24 30	02 54
16412	HD 223809	23 48.1	25 44	"	"	"	23.0	02 58 24	03 22
16413	HD 5092	00 47.7	29 48	"	"	"	23.0	03 27 24	03 51
16414	HD 12029	01 53.0	28 54	"	"	"	23.0	03 56 42	04 38

Focus Test — Outside through base

Focus at 210

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.		REMARKS
[illegible]	[illegible] 51	- 4 16	0	9.0 (est)	½ - ½ - ½	Set 2.5
[illegible]	W 1 19	28 55	0	9.1 G5	½ - ½ - ½	" 7.5
00 h	1 18 W	26 54	0	7.3 K2	½ - ½ ½	" 2.5
01 h	2 [illegible] W	26 55	0	graph 9.6 K0	½ ½ ½	" 7.5
[illegible]	3 [illegible] W	27 21	0	graph 9.2 K0	½ ½ ½	2.5
[illegible]	[illegible] W	25 43	0	graph 8.7 K0	½ ½ ½	7.5
	1 03 W	25 43	0	graph 8.5 K0	½ ½ ½	2.5
	0 33 W	30 02	0	graph 8.5 K0	½ ½ ½	7.5
	0 13 W	29 07	0	graph 9.0 K2	½ ½ ½	2.5
					4 / 2½	7.5

field I was not sure right to me. x = scale - 1h 55m 3 dec. 21 min. out.

1 ph loaded + 4.

300

Date..... Julian Day.....

Plate No.	Object	R.A. 1900	Declination 1900	Instrument	Emulsion	Slit	Temperature	Starting Time E.S.T.	Ending Time E.S.T.

Kinnegoll way out 6^{3}
" sunny in Head to N 4^{3}